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SECOND BIBLIOGRAPHY AND CATALOGUE
OF THE
FOSSIL VERTEBRATA OF NORTH AMERICA

BY
OLIVER PERRY HAY

Vol. I

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ERRATA

On page 35, under Abel, O. 1922 D, the second word should read Schnauzenverletzungen.

On page 190, under Gilmore, C. W. 1909 B, the pages of the Proc. U. S. Nat. Mus. should read 35-42.

On page 191, under Gilmore, C. W. 1916 D, the plates should read lxxii-lxxviii.

On page 195, under Gilmore, C. W. 1927 D, the volume of the Smithsonian Misc. Coll. should be LXXX, instead of LX.

On page 323 under Matthew and Granger 1925 A, instead of Amer. Mus. Novit., No. 186, read No. 189.

On page 342, under Mook, C. C. 1916 A, the volume cited should be XXVII, instead of XVII.

P R E F A C E

In 1902 the U. S. Geological Survey published for the writer a volume entitled "Bibliography and Catalogue of the Fossil Vertebrata of North America." Since that time, through research and publication, the knowledge of the structure and relationships of fossil vertebrates, the number of new genera and species, and their geological and geographical distribution have been greatly increased. A recognition of these facts has led to the production of this "Second Bibliography and Catalogue of the Fossil Vertebrata of North America."

This work follows the same plan in general as that adopted in the volume of 1902. There is first presented a list of the scientific publications from which papers have been selected for analysis and record and for citation under the appropriate zoological divisions of the Catalogue. As in the earlier volume, author's papers are listed under the year of publication followed by a letter of the alphabet, as Gill, T. 1884 A, B, etc. In case an author has one or more papers in the volume of 1902 and one or more in the present volume, any later paper will take the next letter of the proper year, as Gill, T. 1884 E. This explanation will account for some apparent irregularities. It must be noted that only rarely has the title of any paper found in the book of 1902 been republished in the present work; nor have, with few exceptions, citations from those papers been repeated.

In the Catalogue, in case the name of a species, genus, etc., is new, the name of its author and place of publication are given first and the author's name is italicised. If the species or genus is mentioned in the volume of 1902 a reference to that volume is given either first or it follows the name of the author of the zoological title.

As regards the systematic names of families, genera and species the writer has, as strictly as his knowledge has permitted, followed "The International Rules of Zoological Nomenclature." For the higher groups these rules do not prescribe. For the superfamilies the ending *oidæ*, as employed by Dr. Leonhard Stejneger and Mr. Gerrit S. Miller, has been adopted. For the suborders the ending *formes* has sometimes been used and for the orders occasionally the ending *morphi*. These are affixed to the root of the name of the typical genus of the family.

The Catalogue of the present volume embraces the Plagiostomi, the ichthyodorulites, the Osteichthyes and the Amphibia. The succeeding part of the work will deal with the Ichnites, the Reptilia, the Aves and

the Mammalia and will terminate with an index of the systematic names used in the Catalogues of both volumes.

Besides the territory covered by the volume of 1902 the writer includes Greenland, Mexico, and Central America.

The author hopes that the labor expended on the volumes of this work will be of some service to those who are interested in vertebrate paleontology. No doubt errors of all kinds will be found in the work, but these seem to be unavoidable. It is hoped that all the described species have been recorded, but possibly a few have been overlooked. The "Zoological Record" for 1927 and that for 1928 have not been received, and in consequence valuable papers may have been missed.

The author, in conclusion, acknowledges his indebtedness to the authorities of the U. S. National Museum for access to its libraries, its laboratories and collections and for kindly aid in accomplishment of the scientific work he has tried to do. He is under still greater obligations to the officers of the Carnegie Institution of Washington for the support and encouragement they have given him during the years which have passed.

OLIVER P. HAY.

LIST OF ABBREVIATIONS

WITH TITLES OF BOOKS AND JOURNALS CITED

- Aarbok Bergens Mus.*—Bergens Museum Aarbok. Naturvidenskabelig Raecke. Bergen.
- A. O. U.*—Check-list of North American Birds. Prepared by a Committee of the American Ornithologists' Union. 3d edition (revised).
- Abh. Akad. Wiss. Berlin.*—Abhandlungen der königlichen preussischen Akademie der Wissenschaften zu Berlin. Physikalisch-mathematische Classe. Berlin.
- Abh. bayer. Akad.*—Abhandlungen der mathematisch-physikalischen Classe der königlichen bayerischen Akademie der Wissenschaften. München.
- Abh. Ber. Mus. Natur-Heimatsk.*—Abhandlungen und Berichte des Museums für Natur- und Heimatskunde zu Magdeburg. Magdeburg.
- Abh. böhmisch. Ges.*—Abhandlungen der mathematisch-naturwissenschaftlichen Classe der k. böhmischen Gesellschaft. Prag.
- Abh. geol. Karte Elsass.*—Abhandlungen zur geologischen Spezialkarte von Elsass-Lothringen. Strassburg.
- Abh. geol. Landesanst. Darmstadt.*—Abhandlungen der grossherzoglich-hessischen geologischen Landesanstalt zu Darmstadt. Cited also as *Abh. hess. geol. Landesanst. Darmstadt.*
- Abh. geol. Reichsanst. Wien.*—Abhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Wien.
- Abh. Ges. Götting.*—Abhandlungen der königlichen Gesellschaft der Wissenschaften zu Göttingen. Mathematisch-physikalische Klasse. Berlin.
- Abh. Mus. Dresden.*—Abhandlungen und Berichte des königlichen zoologischen und anthropologisch-ethnographischen Museums zu Dresden. Dresden.
- Abh. naturf. Ges. Halle.*—Abhandlungen der naturforschenden Gesellschaft. Halle.
- Abh. naturh. Ges. Nürnberg.*—Abhandlungen der naturhistorischen Gesellschaft zu Nürnberg.
- Abh. naturw. Ges. Isis.*—Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft "Isis" in Dresden.
- Abh. preuss. geol. Landesanst.*—Abhandlungen der königlich-preussischen geologischen Landesanstalt. Berlin.
- Abh. schweiz. pal. Ges.*—Abhandlungen der schweizerischen palaeontologischen geologischen Gesellschaft. Also called *Mémoires de la Société paléontologique suisse*. Basel und Genf.
- Abh. Senckenb. naturf. Ges.*—Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfurt a. M.
- Abh. zool.-bot. Ges. Wien.*—Abhandlungen der k. k. zoologischen-botanischen Gesellschaft. Wien.
- Aet. Acad. Cien. Córdoba.*—Actas de la Academia nacional de Ciencias en Córdoba. Buenos Aires.
- Aeta Acad. Leop.-Carol.*—Nova Acta Academiæ Cæsareæ Leopoldino-Carolinæ Germanicæ naturæ curiosorum. Called also: *Verhandlungen der k. Leop.-Carol. deutschen Akademie der Naturforscher*. Halle.
- Aeta Acad. Sci. Petropol.*—Acta Academiæ Scientiarum Imperialis Petropolitanæ. St. Petersburg.
- Aeta Soc. Faun. Fenn.*—Acta Societatis pro Fauna et Flora Fennica. Helsingfors.

- Acta Soc. Lund.*—Acta regię Societatis physiographicę Lundensis. See *Acta Univ. Lund.*
- Acta Soc. Sci. Fenn.*—Acta Societatis Scientiarum Fennicę. Helsingfors.
- Acta Soc. Sci. Upsal.*—Nova Acta regię Societatis Scientiarum Upsaliensis. Upsala.
- Acta Univ. Lund.*—Acta Universitatis Lundensis. Called also: Lunds Universitets Arsskrift; and includes: Acta regię Societatis physiographicę Lundensis; also called: Kongl. fysiografiska Sällskapet i Lund Handlingar. Lund, Sweden.
- Acta Zool.*—Acta Zoologica. Internationell Tidskrift för Zoologi. Stockholm.
- Actes Mus. hist. nat. Rouen.*—Actes du Muséum d'histoire naturelle de Rouen. Rouen.
- Actes Soc. helvét. Sci. nat.*—Actes de la Société helvétique des Sciences naturelles. Aaran. Same as Verh. schweiz. naturf. Ges.
- Actes Soc. Linn. Bordeaux.*—Actes de la Société Linnéenne de Bordeaux.
- Aeronaut. Jour. London.*—Aeronautical Journal. London.
- Afh. Bergens Mus.*—Afhandlingar og Aarsberetning, udgivne af Bergens Museum. Bergen.
- Allg. Naturf.-Zeit.*—Allgemeine Naturforscher-Zeitung. Berlin.
- Amer. Anthropol.*—The American Anthropologist. Lancaster.
- Amer. Geologist.*—The American Geologist; a monthly journal of geology and allied sciences. Minneapolis.
- Amer. Invent.*—American Inventor. New York.
- Amer. Jour. Anat.*—The American Journal of Anatomy. Baltimore.
- Amer. Jour. Phys. Anthropol.*—American Journal of Physical Anthropology. Washington.
- Amer. Jour. Physiol.*—The American Journal of Physiology. Boston.
- Amer. Jour. Sci.*—The American Journal of Science. New Haven.
- Amer. Mercury.*—The American Mercury. New York.
- Amer. Micr. Jour.*—The American Monthly Microscopical Journal. Washington.
- Amer. Midl. Nat.*—The American Midland Naturalist. Bimonthly. Notre Dame University. South Bend.
- Amer. Month. Mag. Crit. Rev.*—The American Monthly Magazine and Critical Review. 4 volumes 1817–1818. New York.
- Amer. Mus. Guide leaflet.*—American Museum of Natural History, Guide leaflet series. New York.
- Amer. Mus. Jour.*—The American Museum Journal. New York.
- Amer. Mus. Novit.*—American Museum Novitates. New York.
- Amer. Naturalist.*—The American Naturalist. Philadelphia, Boston, Lancaster.
- An. Mus. La Plata.*—Anales del Museo de La Plata. Buenos Aires.
- An. Mus. Nac. Buenos Aires.*—Anales del Museo Nacional de Historia Natural de Buenos Aires. Buenos Aires.
- An. Mus. Nac. México.*—Anales del Museo Nacional de México. Segunda época. México.
- An. Mus. Nac. Montevideo.*—Anales del Museo Nacional de Montevideo. Montevideo.
- An. Soc. cien. Argent.*—Anales de la Sociedad científica Argentina. Buenos Aires.
- Anat. Anz.*—Anatomischer Anzeiger. Centralblatt für die gesamte wissenschaftliche Anatomie. Amtliches Organ der anatomischen Gesellschaft. Jena.
- Anat. Anz. Ergänzungsh.*—Anatomischer Anzeiger. Ergänzungsheft, containing Verhandlungen der anatomischen Gesellschaft. Jena.
- Anat. Hefte, Arb.*—Anatomische Hefte. Erste Abteilung. Beiträge und Referate zur Anatomie und Entwicklungsgeschichte. Arbeiten aus anatomischen Instituten. Wiesbaden.

- Anat. Hefte, Ergebn.*—Anatomische Hefte. Zweite Abteilung. Ergebnisse der Anatomie und Entwicklungsgeschichte. Wiesbaden.
- Anat. Record.*—Anatomical Record. Wistar Institute of Anatomy and Biology. Philadelphia.
- Anat. Stud.*—Anatomische Studien. Herausgegeben von Dr. C. Hasse. Leipzig.
- Ann. Brit. Geol.*—Annals of British Geology. London.
- Ann. Carnegie Mus.*—Annals of the Carnegie Museum. Pittsburgh.
- Ann. Durban Mus.*—Annals of Durban Museum. Durban.
- Ann. Hébert.*—Annales Hébert. Annales de stratigraphie et de paléontologie du laboratoire de géologie de la faculté des Sciences de Paris. Paris.
- Ann. Iowa.*—Annals of Iowa. Des Moines.
- Ann. Lyc. Nat. Hist. N. Y.*—Annals of the Lyceum of Natural History of New York. New York.
- Ann. Mag. Nat. Hist.*—Annals and Magazine of Natural History, including Zoology, Botany, and Geology. London.
- Ann. Med. Hist.*—Annals of Medical History. New York.
- Ann. Mus. Congo belge, Géol.*—Annales du Musée du Congo belge. Bruxelles.
- Ann. Mus. hist. nat. Belgique.*—Annales du Musée royal d'histoire naturelle de Belgique. Bruxelles.
- Ann. Mus. hist. nat. Marseille.*—Annales du Musée d'histoire naturelle de Marseille. Zoologie. Marseille.
- Ann. Mus. hist. nat. Paris.*—Annales du Muséum d'histoire naturelle. Paris.
- Ann. Mus. Hungar.*—Annales Musei nationalis Hungarici. Budapest.
- Ann. N. Y. Acad. Sci.*—Annals of the New York Academy of Sciences. New York.
- Ann. Nat. Hist.*—Annals of Natural History, or Magazine of Zoology, Botany and Geology. London.
- Ann. Natal Mus.*—Annals of the Natal Government Museum. London.
- Ann. naturh. Hofmus. Wien.*—Annalen des k. k. naturhistorischen Hofmuseums. Wien.
- Ann. Paléont. Paris.*—Annales de Paléontologie. Paris.
- Ann. Philos. Lond.*—Annals of Philosophy. London.
- Ann. Queensl. Mus.*—Annals of Queensland Museum. Brisbane.
- Ann. Rec. Sci. Indust.*—Annual Record of Science and Industry. Edited by Spencer F. Baird. New York.
- Ann. Sci. géol. Paris.*—Annales des Sciences géologiques. Paris.
- Ann. Sci. nat.*—Annales des Sciences naturelles. Zoologie et Paléontologie. Paris.
- Ann. Sci. nat. Bologna.*—Nuovi Annali delle Scienze naturali. Bologna.
- Ann. Soc. Agric. Lyon.*—Annales de la Société d'Agriculture, Histoire naturelle et Arts utiles de Lyon. Lyons and Paris.
- Ann. Soc. Agric. Puy.*—Annales de la Société d'Agriculture, Sciences, etc., du Puy. Le Puy.
- Ann. Soc. Belge Micr.*—Annales de la Société Belge de Microscopie. Bruxelles.
- Ann. Soc. géol. Belgique.*—Annales de la Société géologique de Belgique. (Consist of Bulletin and Mémoires.) Liege.
- Ann. Soc. géol. Nord.*—Annales de la Société géologique du Nord. Lille.
- Ann. Soc. Linn. Lyon.*—Annales de la Société Linnéenne de Lyon. Lyon.
- Ann. Soc. Méd. Gand.*—Annales et Bulletin de la Société de Médecine de Gand. Gand.
- Ann. Soc. scient. Bruxelles.*—Annales de la Société scientifique de Bruxelles. Bruxelles.
- Ann. Soc. zool. Belgique.*—Annales de la Société royale zoologique et malacologique de Belgique. Mémoires et Bulletins. Bruxelles.
- Ann. S. African Mus.*—Annals of South African Museum. Cape Town.
- Ann. Transvaal Mus.*—Annals of Transvaal Museum. Pretoria.

- Ann Univ. Lyon.*—Annales de l'Université de Lyon. Sciences, Médecine. Lyon.
- Ann. Wien. Mus. Zool. Abh.*—Zoologische Abhandlungen aus den Annalen des Wiener Museums der Naturgeschichte. Wien.
- Annuaire Géol. Min. Russie.*—Annuaire géologique et minéralogique de la Russie. Nova Alexandria.
- Annuaire Mus. St. Pétersb.*—Annuaire du Musée zoologique de l'Académie impériale de St. Pétersbourg.
- Annuaire Mus. Univ. Napoli.*—Annuario del Museo zoologico della R. Università di Napoli. Napoli.
- Anthrop. Pap. Amer. Mus. Nat. Hist.*—Anthropological Papers of the American Museum of Natural History. New York.
- Anz. Akad. Wiss. Wien.*—Anzeiger der k. Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Classe. Wien.
- Aquarium Bull.*—The Aquarium Bulletin. Brooklyn, N. Y.
- Aquila.*—Aquila. Budapest.
- Arb. anat. Inst. Univ. Sendai.*—Arbeiten aus dem anatomischen Institut der kaiserlich-japanischen Universität zu Sendai. Tokyo.
- Arb. Inst. Würzburg.*—Arbeiten aus dem zoologischen-zootomischen Institut in Würzburg. Wiesbaden.
- Arb. Naturf.-Ver. Riga.*—Arbeiten des Naturforscher-Vereins zu Riga. Riga.
- Arb. zool. Inst. Wien.*—Arbeiten aus dem zoologischen Institut der Universität Wien und der zoologischen Station in Triest. Wien.
- Arch. Anat. Entwickl.*—Archiv für Anatomie und Entwicklungsgeschichte. Anatomische Abteilung des Archives für Anatomie und Physiologie. Leipzig.
- Arch. Anat. mier. Paris.*—Archives d'Anatomie microscopique. Paris.
- Arch. Anat. Physiol. Leipzig.*—See Arch. Anat. Entwickl.
- Arch. Anat. Physiol. Med.*—Archiv für Anatomie, Physiologie und wissenschaftliche Medizin. Berlin.
- Arch. Anthropol.*—Archiv für Anthropologie. Braunschweig.
- Arch. Antropol. Etnol.*—Archivio per l'antropologia e la etnologia. Firenze.
- Arch. Biol.*—Archives de Biologie. Gand, Paris, etc.
- Arch. Biontol.*—Archiv für Biontologie (Gesellschaft naturforschender Freunde). Berlin.
- Arch. Comm. Sei. Mex.*—Archives de la Commission scientifique du Mexique. Paris.
- Arch. Dorpat. Ges.*—Archiv für die Naturkunde Liv-, Esth- und Kurlands. Herausgegeben von der Dorpater Naturforscher-Gesellschaft. Dorpat.
- Arch. Entwickl.-mech. Organ.*—Archiv für Entwicklungsmechanik der Organismen. Leipzig.
- Arch. Hydrobiol.*—Archiv für Hydrobiologie. Organ der internationalen Vereinigung für theoretische und angewandte Limnologie. Stuttgart.
- Arch. ital. Anat. Embr.*—Archivio italiano di anatomia e di embriologia. Firenze.
- Arch. ital. Biol.*—Archives italiennes de Biologie. Turin, Pise.
- Arch. mikr. Anat. Bonn.*—Archiv für mikroskopische Anatomie. Bonn.
- Arch. Min. Geogn. Bergb.*—Archiv für Mineralogie, Geognosie, Bergbau, etc. Berlin.
- Arch. Mus. hist. nat. Lyon.*—Archives du Muséum d'histoire naturelle. Lyon.
- Arch. Mus. hist. nat. Paris.*—Nouvelles Archives du Muséum d'histoire naturelle. Paris.
- Arch. Mus. Rio Jan.*—Archives do Museu Nacional do Rio de Janeiro. Brazil.
- Arch. Mus. Teyler.*—Archives du Musée Teyler. Haarlem.
- Arch. Naturges.*—Archiv für Naturgeschichte. Berlin.
- Arch. Ohrenheilk.*—Archiv für Ohrenheilkunde. Leipzig.
- Arch. Rassenbiol.*—Archiv für Rassen- und Gesellschaftsbiologie, etc. Leipzig.

- Arch. Sci. biol.*—Archives des Sciences biologiques. Publiées par l'Institut Impérial de Médecine expérimentale à St. Pétersbourg.
- Arch. Sci. Méd.*—Archives des Sciences Médicales. Organ de l'Institut d'Anatomie et de Chirurgie de Bucarest. Paris.
- Arch. Sci. Phys. Nat.*—Archives des Sciences physiques et naturelles. Genève.
- Arch. wiss. u. prakt. Tierheilk.*—Archiv für wissenschaftliche und praktische Tierheilkunde. Berlin.
- Arch. Zool. expér.*—Archives de Zoologie expérimentale et générale. Paris.
- Arkiv Zool.*—Arkiv för Zoologi. Utgifvet af k. Svenska Vetenskapsakademien. Upsala and Stockholm.
- Arssk. Vetensk.-Soc. Upsala.*—Arsskrift, utgiven af kongl. Vetenskaps-Societeten. Upsala.
- Asia.*—New York.
- Asiat. Res.*—Asiatic Researches; or Transactions of the Society instituted in Bengal, etc. Calcutta.
- Atlant. Jour.*—Atlantic Journal and Friend of Knowledge. Philadelphia.
- Atti Accad. Lincei.*—Atti della R. Accademia dei Lincei. Della Classe di Scienze fisiche, matematiche e naturali. Roma. Consists of Memorie and Rendiconti.
- Atti Accad. Pont. Lincei.*—Atti dell' Accademia Pontificia dei nuovi Lincei. Roma.
- Atti Accad. Sci. Napoli.*—Atti dell' Accademia delle Scienze fisiche e matematiche. Napoli.
- Atti Accad. Sci. Palermo.*—Atti della Reale Accademia di Scienze, Lettere e Belle Arti di Palermo. Palermo.
- Atti Accad. Sci. Torino.*—Atti della R. Accademia delle Scienze di Torino. Torino.
- Atti Soc. Ital. Sci. Nat.*—Atti della Società Italiana di Scienze Naturali e del Museo Civili di storia naturale. Milano.
- Atti Soc. Nat. Modena.*—Atti della Società dei Naturalisti e matematici di Modena. Modena.
- Atti Soc. Toscana Sci. Nat.*—Atti della Società Toscana di Scienza Naturali residente in Pisa. Pisa.
- Augustana Lib. Publ.*—Augustana Library Publications. Rock Island, Ill.
- Auk.*—The Auk: a quarterly Journal of Ornithology. New York.
- Aus der Heimat.*—Aus der Heimat: Naturwissenschaftliche Monatschrift. Stuttgart.
- Aus der Natur.*—Aus der Natur: Zeitschrift für alle Naturfreunde. Leipzig.
- Baylor Bull.*—Baylor Bulletin. Baylor University. Waco, Texas.
- Beitr. Pal. Geol. Österr.-Ung.*—Beiträge zur Paläontologie und Geologie Österreich-Ungarns und des Orients. Wien.
- Ber. Mus. Franc.-Carl. Linz.*—Bericht über das Museum Francisco-Carolinum in Linz. Linz, Austria.
- Ber. naturf. Ges. Bamberg.*—Bericht der naturforschenden Gesellschaft in Bamberg. Bamberg.
- Ber. naturf. Ges. Freiburg.*—Berichte der naturforschenden Gesellschaft zu Freiburg i. B. Freiburg.
- Ber. naturf. Ges. Halle.*—Bericht über die Sitzungen der naturforschenden Gesellschaft zu Halle. Halle.
- Ber. naturhist. Ver. Augsburg.*—Bericht des naturhistorischen Vereins in Augsburg. Augsburg.
- Ber. oberrhein. geol. Ver.*—Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Stuttgart.
- Ber. Senckenb. naturf. Ges.*—Bericht über die Senckenbergische naturforschende Gesellschaft in Frankfurt-am-Main.
- Ber. St. Gall. naturw. Ges.*—Bericht der St. Gallischen naturwissenschaftlichen Gesellschaft. St. Gallen.

- Bibl. anat.*—Bibliographie anatomique. Paris, Nancy.
- Bibl. géol. Russic.*—Bibliothèque géologique de la Russie. St. Pétersbourg.
- Bibl. Serv. Wistar Inst.*—Bibliographic Service of the Wistar Institute of Anatomy and Biology. Abstracts on cards. Philadelphia.
- Bibl. Zool.*—Bibliographia Zoologica. Leipzig.
- Bihang Svenska Vet. Akad. Handl.*—Bihang till kongl. Svenska Vetenskaps Akademiens Handlingar. Stockholm.
- Bijdr. Anat. Haarlem.*—Petrus Camper. Nederlandse Bijdragen tot de Anatomie. Haarlem.
- Bijdr. Dierk. Amsterdam.*—Bijdragen tot de Dierkunde, etc. Amsterdam.
- Biol. Bull.*—Biological Bulletin, published by the Marine Biological Laboratory, Woods Hole, Mass.
- Biol. Centr. Amer.*—Biologia Centrali-Americana. London.
- Biol. Centralbl.*—Biologisches Centralblatt. Leipzig.
- Biol. Foren. Forh.*—Biologiska Föreningens Förhandlingar. Verhandlungen des biologischen Vereins in Stockholm.
- Biol. Gen.*—Biologia Generalis. International journal of general biology. Vienna, Bratislava, Baltimore.
- Biol. Lect. Woods Hole.*—Biological lectures from the Marine Biological Laboratory. Woods Hole, Massachusetts. Boston.
- Biol. Zeitschr. Moscow.*—Biologische Zeitschrift. Moscow.
- Biol. Zentralbl.*—See Biol. Centralbl.
- Bol. Acad. Cien. Córdoba.*—Boletín de la Academia nacional de Ciencias en Córdoba (República Argentina). Buenos Aires.
- Bol. Com. geol. Ital.*—Bollettino del R. Comitato geologico d'Italia. Roma.
- Bol. Direc. Estud. Biolog.*—Boletín de la Dirección de Estudios Biológicos. México.
- Bol. Inst. Geol. Méx.*—Boletín del Instituto Geológico de México. City of Mexico.
- Bol. Mus. nat. México.*—Boletín del Museo nacional de México. City of Mexico.
- Bol. Soc. españ. hist. nat.*—Boletín de la R. Sociedad española de historia natural. Madrid.
- Bol. Soc. Geogr. Estad. Rep. mex.*—Boletín de la Sociedad Geografía y Estadística de la República mexicana. City of Mexico.
- Boll. Mus. Zool. Anat. Torino.*—Bollettino dei Musei di Zoologia e di Anatomia comparata della R. Università. Torino.
- Boll. Soc. geol. Ital.*—Bollettino della Società geologica Italiana. Roma.
- Boll. Soc. Napoli.*—Bollettino della Società di Naturalisti. Napoli.
- Boll. Soc. zool. Ital.*—Bollettino della Società zoologica Italiana. Roma.
- Brit. Dental Jour.*—British Dental Journal. The journal of the British Dental Association. London.
- Brit. Jour. Dental Sci.*—British Journal of Dental Science. London.
- Brit. Med. Jour.*—British Medical Journal; the journal of the British Medical Association. London.
- Bronn's Klass. Ordn.*—Bronn's Klassen und Ordnungen des Thierreichs. Leipzig.
- Bull. Acad. Sci. Belgique.*—Bulletins de l'Académie royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Bruxelles.
- Bull. Acad. Sci. Cracovie.*—Bulletin international de l'Académie des Sciences de Cracovie. Comptes-rendus des séances; also designated as Anzeiger der Akademie der Wissenschaften in Krakau. Cracovie.
- Bull. Acad. Sci. Russ.*—Bulletin de l'Académie des Sciences de Russie. Leningrad.
- Bull. Acad. Sci. St. Pétersb.*—Izvestiya imperatorskoi akademii nauk (Bulletin de l'Académie impériale des Sciences de St. Pétersbourg).
- Bull. Amer. Mus. Nat. Hist.*—Bulletin of American Museum of Natural History. New York.

- Bull. Amer. Pal.*—Bulletins of American Paleontology, Cornell University. Ithaca.
- Bull. Assoc. Sci. France.*—Bulletin de l'Association Scientifique de France.
- Bull. Brit. Ornith. Club.*—Bulletin of British Ornithologists' Club. London.
- Bull. Buffalo Soc. Nat. Sci.*—Bulletin of Buffalo Society of Natural Sciences. Buffalo.
- Bull. Calif. Acad. Sci.*—Bulletin of California Academy of Sciences. San Francisco.
- Bull. Chicago Acad. Sci.*—Bulletin of Chicago Academy of Sciences. Chicago.
- Bull. Com. géol. St. Pétersb.*—Bulletin du Comité géologique de St. Pétersbourg. Petrograd.
- Bull. Conn. Geol. Nat. Hist. Surv.*—Bulletin of Geological and Natural History Survey of Connecticut. Hartford.
- Bull. Cornell Univ. Sci.*—Bulletin of Cornell University. (Science.) Ithaca.
- Bull. Dept. Geol. Univ. Calif.*—University of California publications. Bulletin of Department of Geology. Berkeley.
- Bull. Essex Inst.*—Bulletin of Essex Institute. Salem, Mass.
- Bull. Géol. Caen.*—Bulletin du Laboratoire de Géologie de la Faculté des Sciences de Caen. Caen.
- Bull. Geol. Instn. Upsala.*—Bulletin of Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Amer.*—Bulletin of Geological Society of America. New York.
- Bull. Geol. Surv. Alabama.*—Geological Survey of Alabama. Bulletins. Montgomery.
- Bull. Geol. Surv. Georgia.*—Geological Survey of Georgia. Bulletins. Atlanta.
- Bull. Geol. Surv. Minnesota.*—Bulletins. Geological and Natural History Survey of Minnesota. Minneapolis.
- Bull. Geol. Surv. Missouri.*—Geological Survey of Missouri. Bulletins. Jefferson City.
- Bull. Geol. Surv. New Jersey.*—Geological Survey of New Jersey. Bulletins. Trenton.
- Bull. Geol. Surv. Ohio.*—Geological Survey of Ohio. Bulletins. Columbus.
- Bull. Geol. Surv. Victoria.*—Victoria, Department of Mines. Bulletins of the Geological Survey of Victoria. Melbourne.
- Bull. Ill. Mus. Nat. Hist.*—Bulletin of Illinois State Museum of Natural History. Springfield.
- Bull. internat. Acad. Sci. Cracovie.*—Bulletin international de l'Académie des Sciences de Cracovie. Classe des Sciences mathématiques et naturelles. Same as *Anzeiger der Akademie der Wissenschaften in Krakau*. Cracovie.
- Bull. internat. Acad. Sci. Prague.*—Bulletin international de l'Académie des Sciences. Classe des Sciences mathématiques, naturelles, etc. Prague.
- Bull. Lab. Nat. Hist. Iowa.*—Bulletins from Laboratories of Natural History of State University of Iowa. Iowa City.
- Bull. Liverpool Mus.*—Bulletin of Liverpool Museums. Liverpool.
- Bull. Mém. Soc. Anthrop.*—Bulletins et Mémoires de la Société d'Anthropologie de Paris. Paris.
- Bull. Min. Acad. Sci.*—Bulletin of Minnesota Academy of Natural Sciences. Minneapolis.
- Bull. Mus. Comp. Zool.*—Bulletin of Museum of Comparative Zoology at Harvard College. Cambridge.
- Bull. Mus. hist. nat. Paris.*—Bulletin du Muséum d'histoire naturelle. Paris.
- Bull. Mus. Roy. hist. nat. Belgique.*—Bulletin du Musée d'histoire naturelle de Belgique. Bruxelles.
- Bull. N. Y. State Mus.*—Bulletin of New York State Museum of Natural History. Albany.
- Bull. N. Y. Zool. Soc.*—Bulletin of New York Zoological Society. New York.

- Bull. Nat. Hist. Soc. N. Brunsw.*—Bulletin of Natural History Society of New Brunswick. St. John.
- Bull. Neb. State Mus.*—Bulletin of Nebraska State Museum. Lincoln.
- Bull. Peabody Mus. Nat. Hist.*—Bulletin of Peabody Museum of Natural History. New Haven.
- Bull. Phillips Acad.*—Bulletin of Department of Archæology of Phillips Academy. Andover.
- Bull. Philos. Soc. Wash.*—Bulletin of Philosophical Society of Washington. Washington.
- Bull. Proc. Nat. Instn. Prom. Sci.*—Bulletin of Proceedings of the National Institution for Promotion of Science. Washington.
- Bull. S. Carol. Geol. Surv.*—Bulletin of South Carolina Geological Survey. Columbia.
- Bull. S. Dakota Geol. Surv.*—South Dakota Geological Survey. Bulletin. Vermilion.
- Bull. S. Dakota Sch. Mines.*—South Dakota School of Mines. Department of Geology. Bulletin. Rapid City.
- Bull. Sch. Mines Colorado.*—Bulletin of Colorado School of Mines. Golden.
- Bull. Sci. France Belgique.*—Bulletin scientifique de la France et de la Belgique. Paris.
- Bull. Sci. Lab. Denison Univ.*—Bulletin of Scientific Laboratories of Denison University. Granville.
- Bull. Sci. Soc. S. Antonio.*—Bulletin of Scientific Society of San Antonio, Texas. San Antonio.
- Bull. So. Calif. Acad. Sci.*—Bulletin of Southern California Academy of Science. Los Angeles.
- Bull. Soc. belge Géol.*—Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. (Consists of Procès-verb. and Mémoires.) Bruxelles.
- Bull. Soc. géol. Belgique.*—(Included in Ann. Soc. géol. Belgique, q. v.)
- Bull. Soc. géol. France.*—Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Normandie.*—Bulletin de la Société géologique de Normandie. Havre.
- Bull. Soc. Linn. Nord France.*—Bulletin de la Société Linnéenne du Nord de la France. Amiens.
- Bull. Soc. Natural. Moscou.*—Bulletin de la Société impériale des Naturalistes de Moscou. Moscou.
- Bull. Soc. Philom. Paris.*—Bulletin de la Société Philomatique de Paris. (Includes Comptes-rendus.) Paris.
- Bull. Soc. Sci. Linn.*—Bulletin de la Société royale Linnéenne. Bruxelles.
- Bull. Soc. Sci. nat. Ekaterinburg.*—Bulletin de la Société ouraliennne d'amateurs des Sciences naturelles. Ekaterinburg.
- Bull. Soc. Sci. nat. Elbeuf.*—Bulletin de la Société d'Études des Sciences naturelles d'Elbeuf.
- Bull. Soc. Sci. nat. Neuchâtel.*—Bulletin de la Société des Sciences naturelles de Neuchâtel.
- Bull. Soc. vaud. Sci. nat.*—Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
- Bull. Soc. Zool. France.*—Bulletin de la Société Zoologique de France. Paris.
- Bull. U. S. Bur. Fish.*—Bulletin of United States Bureau of Fisheries. Washington.
- Bull. U. S. Dept. Agric. Biol.*—U. S. Department of Agriculture. Division of Biological Survey. Washington.
- Bull. U. S. Fish Comm.*—Bulletin of United States Fish Commission. Washington.
- Bull. U. S. Geol. Geog. Surv. Terrs. Hayden.*—Bulletin of United States Geological and Geographical Survey of the Territories. F. V. Hayden. Washington.

- Bull. U. S. Geol. Surv.*—Bulletin of United States Geological Survey. Washington.
- Bull. U. S. Nat. Mus.*—Bulletin of United States National Museum. Washington.
- Bull. Univ. Alberta, Dept. Geol.*—Bulletin of University of Alberta, Department of Geology. Edmonton.
- Bull. Univ. Kansas.*—Bulletin of University of Kansas. Lawrence.
- Bull. Univ. Montana.*—Bulletin of University of Montana. Missoula.
- Bull. Univ. Oregon.*—Bulletin of Oregon University. Eugene.
- Bull. Univ. Texas.*—Bulletin of University of Texas. Austin.
- Bull. Victoria Mem. Mus. Canada.*—Bulletin of Victoria Memorial Museum, Canada. Ottawa.
- Bull. Washburn Lab. Nat. Hist.*—Bulletin of Washburn Laboratory of Natural History. Topeka.
- Bull. Wis. Geol. Nat. Hist. Surv.*—Wisconsin Geological and Natural History Survey. Bulletin. Scientific Series. Madison.
- Bull. Wis. Nat. Hist. Soc.*—Bulletin of Wisconsin Natural History Society. Milwaukee.
- Bull. Zool. Soc. N. Y.*—News Bulletin of Zoological Society. New York.
- Bur. Amer. Ethnol. Bull.*—Bureau of American Ethnology. Bulletins. Washington.
- Bur. Amer. Ethnol., Rep.*—Annual report of Bureau of American Ethnology. Smithsonian Institution. Washington.
- Cambridge Nat. Hist.*—The Cambridge Natural History. Edited by Harmer and Shiply. 10 vols. London.
- Can. Geol. Surv.*—Geological Survey of Canada. Department (Section) of Mines. Ottawa.
- Canad. Field-Naturalist.*—The Canadian Field-Naturalist. Ottawa.
- Canad. Natural. Geol.*—Canadian Naturalist and Geologist. Montreal.
- Canad. Natural. Quart. Jour. Sci.*—The Canadian Naturalist and Quarterly Journal of Science. Cited also as Canadian Naturalist. Montreal.
- Canad. Rec. Sci.*—The Canadian Record of Science, including the proceedings of the Natural History Society of Montreal. Montreal.
- Cent. Mag.*—The Century illustrated monthly Magazine. New York.
- Centralbl. Min. Geol. Pal.*—Centralblatt für Mineralogie, Geologie und Palaeontologie; in Verbindung mit dem Neuen Jahrbuch für Mineralogie, Geologie und Palaeontologie. Stuttgart.
- Chall. Rep. Zool.*—Report of the scientific results of the voyage of H. M. S. *Challenger* during the years 1873–76. London.
- Christ. Albr. Univ. Kiel.*—Christian-Albrechts-Universität. Kiel.
- Coll. Yale Univ.*—Collections of Yale University. New Haven.
- Colorado Coll. Stud.*—Colorado College Studies. Papers read before the Colorado College Scientific Society. Colorado Springs.
- Com. Mus. Nac. Buenos Aires.*—Comunicaciones de Museo nacional de Historia natural. Buenos Aires.
- C. R. Acad. Sci. Paris.*—Comptes-rendus hebdomadaires des séances de l'Académie des Sciences. Paris.
- C. R. Assoc. Anatomistes.*—Comptes-rendus de l'Association des Anatomistes. Places of meeting change. France.
- C. R. Assoc. franç. Avanc. Sci.*—Comptes-rendus de l'Association française pour l'avancement des Sciences. Paris.
- C. R. Congr. internat. Géol.*—Comptes-rendus du Congrès international de Géologie. Places of meeting change.
- C. R. Congr. internat. Méd.*—Comptes-rendus du Congrès international de Médecine. Places of publication change.
- C. R. Congr. internat. Zool.*—Compte-rendu des Séances du Congrès international de Zoologie. See Proceedings and Verhandlungen. Places of meeting change.

- C. R. Soc. Biol.*—Comptes-rendus hebdomadaires des Séances et Mémoires de la Société de Biologie. Paris.
- C. R. Soc. géol. France.*—Compte-rendu des Séances de la Société géologique de France. Paris.
- C. R. Soc. Helvét.*—Archives des Sciences physiques et naturelles. Compte-rendu des travaux de la Société Helvétique des Sciences naturelles. Genève.
- C. R. Soc. philom. Paris.*—Comptes-rendus sommaires de la Société philomatique de Paris.
- Condor.*—The Condor. A magazine of western Ornithology. Berkeley.
- Contrib. Canad. Pal.*—Contributions to Canadian Palæontology. Montreal, Ottawa.
- Contrib. Mus. Geol. Univ. Mich.*—Contributions from Museum of Geology, University of Michigan. Ann Arbor.
- Contrib. Walker Mus.*—Contributions to Walker Museum, University of Chicago. Chicago.
- Copeia.*—Published to advance the science of cold-blooded vertebrates. New York.
- Corresp.-Bl. deutsch. Ges. Anthrop.*—Correspondenzblatt der deutschen Gesellschaft für Anthropologie. Braunschweig.
- Corresp.-Bl. Zahnärzte.*—Correspondenzblatt für Zahnärzte. Berlin.
- Dana Comm. Lectures.*—Dana Commemoration Lectures. New Haven.
- Dansk ornith. For. Tidsskr.*—Dansk ornithologisk Forenings Tidsskrift. Copenhagen.
- Danske Vidensk. Afhandl.*—Det kongelige Danske Videnskabernes Selskabs naturvidenskabelige og matematiske Afhandlinger. Copenhagen.
- Danske Vidensk. Selsk. Biol. Medd.*—Det kongelige Danske Videnskabernes Selskabs. Biologiske Meddelelser. Copenhagen.
- Danske Vidensk. Selsk. Forh. Overs.*—Oversigt over det kongelige Danske Videnskabernes Selskabs Forhandlinger. Copenhagen.
- Danske Vidensk. Selsk. Skr.*—Det kongelige Danske Videnskabernes Selskabs Skrifter. Naturvidenskabelige og matematiske Afdeling. Copenhagen.
- Denk. Akad. Wiss. Wien.*—Denkschriften der kaiserlichen Akademie der Wissenschaften zu Wien. Math.-naturhist. Cl. Wien.
- Denk. med.-naturw. Ges. Jena.*—Denkschriften der medicinisch-naturwissenschaftlichen Gesellschaft. Jena.
- Denk. Schweiz. Ges. Naturw.*—Neue Denkschriften der allgemeinen Schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Also called: Nouveaux Mémoires de la Société Helvétique des Sciences naturelles. Zürich.
- Deutsche Monatsschr. Zahnheilk.*—Deutsche Monatsschrift für Zahnheilkunde. Organ des Central-Vereins deutscher Zahnärzte. Berlin.
- Deutsches Arch. Physiol.*—Deutsches Archiv für die Physiologie. Halle und Berlin.
- Diag. N. A. Mamm.*—Diagnoses of North American Mammals. Washington.
- Discovery.*—New York.
- E. Mus. Lund.*—Samling af Afhandlinger. E. Museo Lundii. Copenhagen.
- Eclogæ geol. Helvetiæ.*—Eclogæ geologicæ Helvetiæ. Lausanne.
- Econom. Geol.*—Economic Geology. Lancaster, Pa.
- Edinb. Jour. Sci.*—The Edinburgh Journal of Science. Edinburgh.
- Edinb. New Philos. Jour.*—Edinburgh New Philosophical Journal. Edinburgh.
- Edinb. New Philos. Mag.*—Edinburgh New Philosophical Magazine. Edinburgh.
- Emu.*—The Emu. Official organ of Australasian Ornithologists' Union. Melbourne.
- Encyclop. Brit.*—The Encyclopædia Britannica. Cambridge, England.
- Encyclop. Méthod. Syst. Anat.*—Encyclopédie Méthodique. Système Anatomique. Paris.
- Fauna arctica.*—Fauna arctica: eine Zusammenstellung der arktischen Tierformen. Jena.

- Fauna Flora, Upsala*.—Fauna och Flora: Populär Tidsskrift for Biologie. Upsala and Stockholm.
- Festschr. 3. Saecularfeier A. J. Maxim*.—Festschrift zur dritten Saecularfeier der Alma Julia Maximiliana. Gewidmet von der medicinischen Facultät. Würzburg.
- Festschr. 350-jähr. Jubelf. Thuring. Univ*.—Festschrift zur 350-jährigen Jubelfeier der Thüringer Universität. Jena.
- Field*.—The Field. London.
- Field Columb. Mus. Geol*.—Field Columbian Museum Publications. Geological Series. Chicago.
- Field Columb. Mus. Zool*.—Field Columbian Museum Publications. Zoological Series. Chicago.
- Field Mus. Nat. Hist. Geol*.—Field Museum Natural History. Geological Series. Chicago.
- Final Rep. Geol. Surv. Minn*.—Final report of Geological Survey of Minnesota. Minneapolis.
- Földt. Közl*.—Földtani Közlöny. Geologische Mittheilungen. Zeitschrift der ungarischen Gesellschaft. Budapest.
- Folio U. S. Geol. Surv*.—United States Geological Survey. Geologic Folio. Washington.
- Forest and Stream*.—New York.
- Fortschr. Geol. Pal*.—Fortschritte der Geologie und Palaeontologie. Berlin.
- Froriep's Notizen*.—Neue Notizen aus dem Gebiete der Natur und Heilkunde gesammelt und mitgetheilt von Ludwig Friederich v. Froriep und Dr. Robert Froriep. Weimar.
- Froriep's Tagsber*.—Tagsberichte über die Fortschritte der Natur und Heilkunde. Abtheilung für Zoologie und Palaeontologie. Weimar.
- Gelehrte Anz. Bayer. Akad*.—Gelehrte Anzeigen. Bayerische Akademie. München.
- Geognost. Jahresh*.—Geognostische Jahreshefte; herausgegeben von der geognostischen Abteilung des k. bayer. Oberbergamtes in München.
- Geol. Centralbl*.—Geologisches Centralblatt: Anzeiger für Geologie, Petrographie, Palaeontologie und verwandte Wissenschaften. Leipzig.
- Geol. Mag*.—The Geological Magazine, or Monthly Journal of Geology; with which is incorporated "The Geologist." New series. London.
- Geol. Pal. Abh. Jena*.—Geologische und Palaeontologische Abhandlungen. E. Koken. Jena.
- Geol. Soc. Amer. Prelim. lists*.—Geological Society of America. Preliminary lists of titles and abstracts to be offered at the meetings.
- Geol. Surv. Ala*.—Reports of Geological Survey of Alabama. Montgomery.
- Geol. Surv. Ill*.—Geological Survey of Illinois, Springfield. Also Illinois State Geological Survey. Urbana.
- Geol. Surv. Ind*.—Geological Survey of Indiana; also reports of Department of Geology and Natural History; of Bureau of Statistics and Geology; Department of Geology and Natural Resources. Indianapolis.
- Geol. Surv. Michigan*.—Geological Survey of Michigan. Lansing.
- Geol. Surv. Missouri*.—Reports of Geological Survey of the State of Missouri. Jefferson City.
- Geol. Surv. N. Carolina*.—Reports of Geological Survey of North Carolina. Raleigh.
- Geol. Surv. New York*.—Reports of various State Geologists. Albany.
- Geol. Surv. Nigeria*.—Geological Survey of Nigeria.
- Geol. Surv. Ohio*.—Reports of Geological Survey of Ohio. Columbus.
- Geol. Surv. Penn*.—Reports of Geological Survey of Pennsylvania. Harrisburg.
- Geol. Surv. Texas*.—Reports of Geological Survey of Texas. Austin.
- Geol. Surv. Wisconsin*.—Reports of Geological Survey of Wisconsin. Madison.

Geol. Zentralbl.—See *Geol. Centralbl.*

Geologist.—The *Geologist*. London.

Gior. Sei. nat. eon. Palermo.—Giornale di Scienze naturali ed economiche. Palermo.

Globus.—Illustrierte Zeitschrift für Länder- und Völkerkunde. Braunschweig.

Guide to Nature.—The Guide to Nature, Education, and Recreation. Stamford, Conn.

Handel. Ned. Nat. Geneesk. Congr.—Handelingen van het Nederlandsch Natuur- en Geneeskundig Congres.

Harper's Month. Mag.—Harper's Monthly Magazine. New York.

Harper's New Month. Mag.—Harper's New Monthly Magazine. New York.

Harvey Lect.—Harvey Lectures. Philadelphia, London.

Hertwig's Handb. vergl. exper. Entwicklungsl. Wirbelt.—Hertwig's Handbuch der vergleichenden und experimentalen Entwicklungslehre der Wirbeltiere. 8vo. Jena.

Ibis.—The Ibis: a quarterly Journal of Ornithology. London.

Ichth. Ohien.—Ichthyologia Ohiensis, or Natural history of the fishes inhabiting the River Ohio and its tributary streams. 8vo. Lexington, Ky., 1820.

Ill. Biol. Monogr.—Illinois Biological Monographs. Published by the University of Illinois. Urbana.

Internat. Amerikanisten-Kongr.—Internationaler Amerikanisten-Kongress. Same as below. Places of meeting change.

Internat. Congr. Americanists.—International Congress of Americanists. Same as above.

Internat. Geol. Congr.—See C. R. Congr. internat. Géol.

Internat. Jour. Anat. Physiol.—Monthly international Journal of Anatomy and Physiology. Also issued as: Journal international d'anatomie et de physiologie; and as: Internationale Monatsschrift für Anatomie und Histologie. Paris, Leipzig, London.

Internat. Jour. Orthodon.—The international Journal of Orthodontia. St. Louis.

Internat. Monatsschr. Anat. Physiol.—Internationale Monatsschrift für Anatomie und Physiologie. Leipzig.

Internat. Ornith. Congr.—International Ornithological Congress. Places of meeting change.

Internat. Rev. Hydrobiol. Hydrogr.—International Revue der gesamten Hydrobiologie und Hydrographie. Leipzig.

Iowa Geol. Surv.—Annual reports of Iowa Geological Survey. Des Moines.

Irish Naturalist.—The Irish Naturalist. Dublin.

Isis von Oken.—Isis (oder Encyclopädische Zeitung). Published by L. Oken. Jena.

Jahrb. geol. Landesanst. Berlin.—Jahrbuch der königlich-preussischen geologischen Landesanstalt und Bergakademie zu Berlin.

Jahrb. geol. Reichsanst. Wien.—Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Wien.

Jahrb. Min. Geogn. Geol.—Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefactenkunde. Stuttgart.

Jahrb. Min. Geol. Pal.—Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. With also Beihge-Band. Stuttgart.

Jahrb. Nassau. Ver. Naturk.—Jahrbuch des Nassauischen Vereins für Naturkunde. Wiesbaden.

Jahrb. St. Gallisch. naturw. Ges.—Jahrbuch der St. Gallischen naturwissenschaftlichen Gesellschaft. St. Gallen.

Jahrb. Wiss. Tierzucht.—Jahrbuch für wissenschaftliche und praktische Tierzucht. Hannover.

- Jahresber. Anat. Entwickl.*—Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte. Jena.
- Jahresber. böhm. Ges. Wiss.*—Jahresbericht der königlich-böhmischen Gesellschaft der Wissenschaften. Prag.
- Jahresber. niedersächs. geol. Ver.*—Jahresbericht des niedersächsischen geologischen Vereins. Geologisches. Hannover.
- Jahresber. ornith. Ver. München.*—Jahresbericht des ornithologischen Vereins München. München.
- Jahresber. schles. Ges. vaterl. Kult.*—Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur. Breslau.
- Jahresber. Ver. Naturwiss. Braunsch.*—Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Braunschweig.
- Jahresh. Ver. Naturk. Württemb.*—Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
- Jena. Zeitschr. Naturwiss.*—Jenaische Zeitschrift für Naturwissenschaft. Jena.
- Johns Hopkins Univ. Circ.*—Johns Hopkins University Circulars. Baltimore.
- Johns Hopkins Univ. Stud.*—Johns Hopkins University Studies from Biological Laboratory. Baltimore.
- Jour. Acad. Nat. Sci. Phila.*—Journal of Academy of Natural Sciences of Philadelphia. Philadelphia.
- Jour. Agric. Res.*—Journal of Agricultural Research. Washington.
- Jour. Amer. Med. Assoc.*—Journal of American Medical Association. Chicago.
- Jour. Amer. Mus. Nat. Hist.*—Journal of American Museum of Natural History. New York.
- Jour. Anat. Lond.*—The Journal of Anatomy. Originally The Journal of Anatomy and Physiology. London.
- Jour. Anat. Physiol. Lond.*—The Journal of Anatomy and Physiology, Normal and Pathological. London.
- Jour. Anat. Physiol. Paris.*—Journal de l'Anatomie et de la Physiologie normales et pathologiques de l'homme et des animaux. Paris.
- Jour. Asiat. Soc. Bengal.*—Journal of Asiatic Society of Bengal. Calcutta.
- Jour. Cincinnati Soc. Nat. Hist.*—Journal of Cincinnati Society of Natural History. Cincinnati.
- Jour. Coll. Sci. Tokyo.*—Journal of College of Science, Imp. University of Tokyo. Tokyo.
- Jour. Comp. Med. Surg.*—Journal of Comparative Medicine and Surgery. Philadelphia.
- Jour. Comp. Neur.*—Journal of Comparative Neurology. Granville, Ohio.
- Jour. Elisha Mitchell Sci. Soc.*—Journal of Elisha Mitchell Scientific Society. Chapel Hill, N. C.
- Jour. Franklin Inst.*—Journal of Franklin Institute. Philadelphia.
- Jour. Geol.*—The Journal of Geology. A semi-quarterly Magazine of Geology and related Sciences. Chicago.
- Jour. Geol. Soc. Tokyo.*—The Journal of Geological Society of Tokyo. Tokyo.
- Jour. Internat. Anat.*—Journal international d'anatomie et de physiologie. (See Internat. Jour. Anat. Physiol.)
- Jour. Linn. Soc. Zool.*—Journal of Linnean Society: Zoology. London.
- Jour. Liverp. Geol. Assoc.*—Liverpool Geological Association: Journal. Liverpool.
- Jour. Mamm.*—Journal of Mammalogy. Published quarterly by American Society of Mammalogists. Baltimore.
- Jour. Mar. Biol. Assoc. U. K.*—Journal of Marine Biological Association of the United Kingdom. Plymouth.
- Jour. Morphol.*—Journal of Morphology. Later called Journal of Morphology and Physiology. Philadelphia.

- Jour. Ornith.*.—Journal für Ornithologie. Deutsches Centralorgan für die gesammte Ornithologie. Leipzig.
- Jour. Phys. Chim. Hist. nat.*.—Journal de Physique, de Chimie et d'Histoire naturelle. Paris.
- Jour. Proc. Roy. Soc. N. S. Wales.*.—Journal and Proceedings of Royal Society of New South Wales. Sidney.
- Jour. Roy. Geol. Soc. Ireland.*.—Journal of Royal Geological Society of Ireland. Dublin, London.
- Jour. Roy. Micr. Soc.*.—Journal of Royal Microscopical Society. London.
- Jour. Victoria Inst.*.—Journal of transactions of Victoria Institute, or Philosophical Society of Great Britain. London.
- Jour. Wash. Acad. Sci.*.—Journal of Washington Academy of Sciences. Washington.
- Jour. Zool. Paris.*.—Journal de Zoologie. Paris.
- Jour. Zool. Res.*.—Journal of Zoological Research. London.
- K. svenska Vetensk. Akad. Handl.*.—Kongliga svenska Vetenskapsakademiens. Upsala, Stockholm.
- Kansas City Rev. Sci. Indust.*.—The Kansas City Review of Science and Industry. Kansas City, Missouri.
- Kansas Univ. Quart.*.—Kansas University Quarterly. Lawrence.
- Kansas Univ. Sci. Bull.*.—The Kansas University Science Bulletin. Lawrence.
- Kent Scient. Inst. Misc. Pap.*.—Kent Scientific Institute, Miscellaneous Papers. Grand Rapids.
- Knowl. Scient. News.*.—Knowledge and Scientific News. London.
- Knowledge.*.—An illustrated magazine of Science. London.
- Korresp.-Bl. deutsch. Ges. Anthropol.*.—Korrespondenzblatt der deutschen Gesellschaft für Anthropologie, Ethnologie und Urgeschichte. Braunschweig.
- Korresp.-Bl. Ver. Riga.*.—Korrespondenzblatt des Naturforscher-Vereins. Riga.
- La Géographie.*.—Bulletin de la Société de Géographie. Paris.
- La Nature.*.—Revue des Sciences. Paris.
- Lancet.*.—The Lancet. A journal of British and foreign medicine, surgery, etc. London.
- L'Anthrop. Paris.*.—L'Anthropologie. Paris.
- Lc Naturaliste.*.—Revue illustrée des sciences naturelles. Paris.
- Leopoldina.*.—Amtliches Organ der kaiserlichen Leopoldino-Carolinischen deutschen Akademie der Naturforscher. Halle.
- L'Institut.*.—Journal des Académies et Sociétés scientifiques de la France et de l'étranger. Paris.
- Lloyd's Nat. Hist. Ser.*.—Lloyd's Natural History Series. Edited by Bowler Sharpe. London.
- Lond. Edinb. Dublin Philos. Mag.*.—The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- Lond. Edinb. Philos. Mag.*.—The London and Edinburgh Philosophical Magazine and Journal of Science.
- Lond. Med. Reposit.*.—London Medical Repository. London.
- Los Angeles Mus. Hist. Sci. Publ.*.—Publications of the Los Angeles County Museum of History, Science and Art. Los Angeles.
- Lund. Univ. Årsskr.*.—Lunds Universitets Årsskrift. Lund. (See also Acta Univ. Lund.)
- Mag. Nat. Hist.*.—The Magazine of Natural History. London.
- Magyar Föld. int. evkőn.*.—A Magyar Királyi Földtani intézet evkönyve. (Annals of the Hungarian Royal Geological Bureau.) Budapest.
- Marine Biol. Lab. Woods Hole, Lectures.*.—Marine Biological Laboratory of Woods Hole. Lectures. Boston, London.
- Maryland Geol. Surv.*.—Maryland Geological Survey. Baltimore.

- Math. naturw. Ber. Ungarn.*—Mathematische und naturwissenschaftliche Berichte aus Ungarn, etc. Leipzig.
- McClure's Mag.*—McClure's Magazine. New York.
- Med. Phys. Jour. Lond.*—Medical and Physical Journal. London.
- Med. Record, N. Y.*—The Medical Record. A semi-monthly Journal of medicine and surgery. New York.
- Med. Reposit. N. Y.*—The Medical Repository. New York.
- Med. Times and Gazette.*—Medical Times and Gazette. London.
- Meddelelser om Grönland.*—Copenhagen.
- Mél. biol.*—Mélanges biologiques. (Reprints from Bulletin Acad. St. Petersburg.)
- Mém. Acad. Sci. Belgique.*—Mémoires de l'Académie des Sciences et des Beaux-Arts de Belgique. Bruxelles.
- Mém. Acad. Sci. France.*—Mémoires de l'Académie des Sciences de l'Institut de France. Paris.
- Mém. Acad. Sci. Lett. Montpellier.*—Mémoires de la Section de l'Académie des Sciences et Lettres de Montpellier.
- Mém. Acad. Sci. Lyon.*—Mémoires de l'Académie des Sciences, Belles-Lettres et Arts de Lyon. Lyon.
- Mém. Acad. Sci. St. Pétersb.*—Zapiski imperatorskoi akademii nauk. (Mémoires de l'Académie impériale des Sciences de Saint-Pétersbourg.) St. Pétersbourg.
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 Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 157.
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- 1907 E
 Die Anfänge des Säugetierstammes.
 Verh. zool.-bot. Ges. Wien, LVII (249-250).
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- 1907 F
 Bau und Lebensweise der Flugsaurier.
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- 1907 G
 Die Stammesgeschichte der Meeres-säugetiere.
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 The genealogical history of the marine mammals.
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 Die Morphologie der Hüftbeinrudimente der Cetaceen.
 Denk. Akad. Wiss. Wien, LXXXI, 139-195, 56 text-figs.
 The bibliography includes 130 titles.
 This paper was issued in 1907.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, II, Ref., 113-117; Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 126, 127; Sci. Progress, II, 512.

- Abel, O.—Continued** 1908 C
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- 1908 D
 Angriffswaffen und Verteidigungsmittel fossiler Wirbeltiere.
 Verh. zool.-bot. Ges. Wien, LVIII (207-217), 4 text-figs.
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- 1908 E
 Die Anpassungsformen der Wirbeltiere an das Meeresleben.
 Schrift. Ver. Verbr. naturw. Kenntn. Wien, XLVIII, 395-422, 6 text-figs.
 Abstract in Geol. Centralbl., xv, 602.
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- 1908 F
 Die Anwendung der Röntgenstrahlen in der Paläontologie.
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 Discussion regarding ichthyosaurs.
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- 1909 A
 Cetaceenstudien. I Mitteilung: Das Skelett von *Eurhinodelphis cocheteuxi* aus dem Obermiozän von Antwerpen.
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- 1909 B
 Cetaceenstudien. II Mitteilung: Der Schädel von *Saurodelphis argentinus* aus dem Pliozän Argentinien.
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 Abstracts in Geol. Centralbl., xiv, 339; Neues Jahrb. Min. Geol. Pal., 1909, II, Ref., 118.
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- 1909 C
 Neuere Anschauungen über den Bau und die Lebensweise der Dinosaurier.
 Verh. zool.-bot. Ges. Wien, LIX (117-121, 122).
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- 1909 D
 Konvergenz und Deszendenz.
 Verh. zool.-bot. Ges. Wien, LIX (221-230).
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- Abel, O.—Continued** 1909 E
 Was verstehen wir unter monophyletischer und polyphyletischer Abstammung?
 Verh. zool.-bot. Ges. Wien, LIX (243-249, 253, 254, 255).
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- 1909 F
 Das Zeitalter der Reptilienherrschaft.
 Schrift. Ver. Verbr. naturw. Kenntn. Wien, XLIX, 451-481.
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- 1910 A
 Über die allgemeinen Prinzipien der paläontologischen Rekonstruktion.
 Verh. zool.-bot. Ges. Wien, LX (141-146).
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- 1910 B
 Diskussion über Riesenwuchs.
 Verh. zool.-bot. Ges. Wien, LX (185-187).
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- 1910 C
 Die Vorfahren der Vögel und ihre Lebensweise.
 Verh. zool.-bot. Ges. Wien, LX (230-231).
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- 1910 D
 Die Rekonstruktion des *Diplodocus*.
 Abh. zool.-bot. Ges. Wien, v, Heft 3, 1-60, pls. i-iii, 5 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 148-149; Nature, LXXXV, 110; Rev. crit. Paléozool., xiv, 227.
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- 1910 E
 Kritische Untersuchungen über die paläogenen Rhinocerotiden Europas.
 Abh. geol. Reichsanst. Wien, xx, Heft 3, 1-52, pls. i, ii.
 For a summary see Neues Jahrb. Min. Geol. Pal., 1911, II, Ref., 461-469.
 Abstract in Sci. Progress, vi, 561.
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- 1911 A
 Die Vorfahren der Vögel und ihre Lebensweise.
 Verh. zool.-bot. Ges. Wien, LXI, 144-191, 7 text-figs.
 Review in Neues Jahrb. Min. Geol. Pal., 1911, II, Ref., 470-475.
 Abstracts in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 156; Sci. Progress, vi, 566.
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- 1912 A
 Kämpfe, Verletzungen und Kampfanpassungen bei fossilen Wirbeltieren.
 Verh. zool.-bot. Ges. Wien, LXII (53-55).
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- 1912 B
 Über die verschiedenen Ursachen des gehäuften Vorkommens von Tierleichen in Gesteinen.
 Verh. zool.-bot. Ges. Wien, LXII (57-61).

Abel, O.—Continued

1912 C

Wissenschaftliche Ergebnisse der Wiener Universitätsreise nach Griechenland. I: Fossilfunde in Pikermi.

Verh. zool.-bot. Ges. Wien, LXII (61-63), 1 text-fig.

1912 D

Verfehlte Anpassungen bei fossilen Wirbeltieren.

Zool. Jahrb., Suppl. xv, i, 597-609, with 2 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1913, II, Ref., 143-145.

1912 E

Über den Erwerb des Flugvermögens.

Schrift. Ver. Verbr. naturw. Kenntn., LII, 215-236, 2 text-figs.

Abstract in Geol. Centralbl., XIX, 42.

1912 F

Grundzüge der Palaeobiologie der Wirbeltiere.

i-xvi+1-708 pages, 470 illustrations. 8vo. Stuttgart.

Reviews in Science (2), xxxv, 1912, 341-342; Zeitschr. Morphol., Anthropol., xvi, 1913, 175-196; Naturwissenschaften, Berlin, II, 424-425; Rev. crit. Paléozool., xvi, 73.

Abstract in Geol. Centralbl., xx, 582-585; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 15.

1912 G

Cetaceensstudien. III: Rekonstruktion des Schädels von *Prosqualodon australe* Lyd. aus dem Miozän Patagoniens.

Sitz.-Ber. Akad. Wiss. Wien, cxxi, Abt. i, 57-75, pls. i-iii, 1 text-fig.

Abstracts in Geol. Centralbl., xx, 525-526; Neues Jahrb. Min. Geol. Pal., 1915, I, Ref., 135.

Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 21.

1913 A

Die eocänen Sirenen der Mittelmeerregion. Erster Teil: Der Schädel von *Eotherium aegyptiacum*.

Palaeontogr., LIX, 289-360, pls. xxx-xxxiv, 5 text-figs.

Abstracts in Rev. crit. Paléozool., xvii, 71; Geol. Centralbl., XIX, 525.

1913 B

Säugetiere (Paläontologie).

Handwörterbuch Naturwissenschaften (Gustav Fischer, Jena), VIII, 695-759, figs. 1-122.

Abel, O.—Continued

1913 C

Die Vorfahren der Bartenwale.

Denk. Akad. Wiss. Wien, xc, 155-224, pls. i-xii, 19 text-figs.

There are abundant citations of the literature.

Abstract in Geol. Zentralbl., xxiii, 316.

1914 A

Die vorzeitlichen Säugetiere.

8vo., i-vii+1-309 pages, 2 tables, 250 text-figs. Jena, Gustav Fischer.

Abstracts in Zeitschr. Morph., Anthropol., xvii, 693-694; Science (n.s.), XL, 1914, 787-788; Neues Jahrb. Min. Geol. Pal., 1915, II, Ref., 280-281.

1914 B

Die Tiere der Vorwelt.

i-iv+1-88 pages, 31 illustrations. Aus Natur und Geisteswelt. 399 Bändchen.

Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 318-319.

1914 C

Paläontologie und Paläozoologie.

Abstammungslehre: System., Palaeont., Biogeog. (Hertwig and Wettstein), iv, 303-395, 8 text-figs.

The bibliography contains 19 titles.

1914 D

Neuere Wege phylogenetischer Forschung.

Naturwiss. Berlin, II, 25-30, 5 figs.

1915 A

Die Paläozoologie in Forschung und Lehre.

Naturwiss. Berlin, III, 413-419.

1916 A

Die Dinosaurier und Ornithosaurier Nordamerikas.

Naturwiss. Berlin, IV, 469-474; 494-498, 11 figs.

1919 A

Die Stämme der Wirbeltiere.

Berlin and Leipzig. 1919.

8vo., i-xviii+1-914 pages, 669 text-figs. Reviews in Centralbl. Min. Geol. Pal., 1921, 637-638. Geol. Mag. LVIII, 45-46.

Abstracts in Geol. Zentralbl., xxvii, 183; Nature, cvi, 274.

1919 B

Neue Rekonstruktion der Flugsauriergattungen *Pterodactylus* und *Rhamphorhynchus*.

Naturwiss. Berlin, VII, 661-665, 7 figs.

1920 A

Lehrbuch der Paläozoologie.

8vo., Jena, i-vii+1-500 pages, 700 figs. Review in Centralbl. Min. Geol. Pal., 1921, 638-640.

Abstract in Geol. Zentralbl., xxvii, 26-27.

- Abel, O.—Continued** 1920 B
 Studien über die Lebensweise von *Chalicotherium*.
 Acta Zool., I, 21-60, 14 text-figs.
 The bibliography is in the form of foot-notes.
- 1921 A
 Die Methoden der paläobiologischen Forschung.
 Pages 129-312, 129 figs. Extract from "Handbuch der biologischen Arbeitsmethod" published by Prof. Dr. Emil Abderhalden, Berlin.
 Abstract in Geol. Zentralbl., xxviii, 29.
- 1922 A
 Kritik der früheren Rekonstruktionen und neue Rekonstruktion von *Trachodon*.
 Palaeont. Zeitschr., iv, 134-146, 1 fig.
- 1922 B
Desmostylus: ein mariner Multituberculate aus dem Miozän der nordpazifischen Küstenregion.
 Anz. Akad. Wiss. Wien, 1922, No. 14, 1-3.
- 1922 C
 Lebensbilder aus der Tierwelt der Vorzeit.
 8vo., Jena, i-viii+1-643 pages, 505 figs.
 Abstract in Geol. Zentralbl., xxviii, 90.
- 1922 D
 Die Schaulenverletzungen der Parasuchier und ihre biologische Bedeutung.
 Palaeont. Zeitschr., v, 26-57, 10 figs.
 Abstract in Geol. Zentralbl., xxxii, 122.
- 1922 E
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 Abstract in Neues Jahrb. Min. Geol. Pal., 1924, ii, 455.
- 1922 F
 Ueber wiederholten Wechsel der Körperformen in Laufe der Stammesgeschichte der Teleostomen.
 Amsterdam Bijdr. Dierk., xxii (Feestnum. Max Weber), 73-87, 15 text-figs.
 Bibliography in foot-notes.
- Abel, O.—Continued** 1923 A
 Über einen Multituberculate aus dem Miozän der nordpazifischen Küstenregion.
 Palaeont. Zeitschr., v, 213-225, 5 figs.
 Followed by a discussion on the part of C. Wiman, E. Stromer, O. Jaekel and T. Edinger.
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- 1923 B
 Discussion on *Ichthyosauria*.
 Palaeont. Zeitschr., v, 271.
- 1924 A
 Die neuen Dinosaurierfunde in der Oberkreide Canadas.
 Naturwiss. Berlin, xii, 709-716, 12 figs.
- 1924 B
 Die Rekonstruktion von *Palaeotherium magnum* Cuvier.
 Palaeont. Zeitschr., vi, 14-24, pl. ii, oleat, 2 text-figs.
- 1925 A
 Geschichte und Methode der Rekonstruktion vorzeitlicher Wirbeltiere.
 8vo., Jena, i-viii+1-327 pages, 225 figs.
 Citations of literature in foot-notes.
- 1925 B
 On a skeleton of *Pterodactylus antiquus* from the lithographic shales of Bavaria, with remains of skin and musculature.
 Amer. Mus. Novit., cxii, 1-12, 4 figs.
- 1926 A
 Die Molarisierung der oberen Prämolaren von *Hyracodon nebrascensis* Leidy.
 Palaeont. Zeitschr., viii, 224-245, 3 figs.
 In foot-notes are citations of the literature.
- 1926 B
 Amerikafahrt. Eindrücke, Beobachtungen und Studien eines Naturforschers auf eine Reise nach Nordamerika und Westindien.
 8vo., Jena, i-x+1-462 pages, 273 figs.
- 1926 C
 Beiträge zu einer Theorie des knöchernen Schädels der Wirbeltiere.
 Palaeont. Zeitschr., viii, 43-44.
- 1926 D
 Morphologische Untersuchungen über die Griffelbeine der Pferde.
 Anz. Akad. Wiss. Wien., lxiii, 63-64.

- Abel, O.**—Continued 1926 E
 Neue Untersuchungen über *Desmostylus* einen Monotremen aus dem Tertiär der pazifischen Küstenregion.
 Verh. zool.-bot. Ges. Wien, LXXIV, (134)-(138).
- , and H. J. **Cook** 1925 A
 A preliminary study of early mammals in a new fauna from Colorado.
 Proc. Colorado Mus. Nat. Hist., v, 33-36, figs. 1-4.
- Adam, Walter** 1830 A
 On the osteological symmetry of the camel, *Camelus bactrianus*.
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- 1854 A
 On the osteological relations observable among a few species of the bovine family.
 Trans. Linn. Soc. Lond. (2), xxi, 237-243.
- Adams, Arthur** 1854 A
 A manual of natural history.
 London, 1854. 8vo., i-viii+1-749 pages.
 Prepared with the assistance of W. B. Bakie and Charles Barron.
- Adams, Charles C.** 1902 A
 Southeastern United States as a center of geographical distribution of flora and fauna.
 Biol. Bull., iii, 115-131.
- 1902 B
 Postglacial origin and migrations of the life of the northeastern United States.
 Jour. Geog., i, 303-310, 352-357.
- 1905 A
 The postglacial dispersal of the North American biota.
 Biol. Bull., ix, 53-71, 1 text-fig.
 See also Rep. 8th Internat. Geogr. Congr., 1904, 623-637, with references to the literature.
- Adams, Leverett Allen** 1919 A
 A memoir on the phylogeny of the jaw muscles in recent and fossil vertebrates.
 Ann. N. Y. Acad. Sci., xxviii, 51-166, pls. i-xiii and numerous text-figs.
 The bibliography occupies pages 160-165.
 Abstracts in Rev. crit. Paléozool., xxv, 6; Geol. Zentralbl., xxvii, 221.
 See **Gregory, W. K.**, and L. A. **Adams**.
- Adams, Lionel E.** 1903 A
 A contribution to our knowledge of the mole (*Talpa europæa*).
 Mem. Manchester Soc., xlvii, No. 4, 1-39, 28 text-figs.
- Adams, Michael F.** 1807 A
 Some account of a journey to the Frozen Sea, and the discovery of the remains of a mammoth.
 Tilloch's Philos. Mag., xxix, 141-153.
 A French translation of this paper is to be found in Tilesius, 1815 A, 431-455.
- Addison, William H. F.**, and J. L. **Appleton, Jr.** 1915 A
 The structure and growth of the incisor teeth of the albino rat.
 Jour. Morphol., xxvi, 43-96, 29 figs.
 The bibliography presents 32 titles.
- Adelmann, H. B.** See **Kingsbury** and **Adelmann**.
- Adelung, N.** 1901 A
 Über den jüngsten Fund einer Mammulleiche in Ostsibirien.
 Globus, LXXX, 85-87.
- Adloff, P.** 1901 A
 Zur Entwicklungsgeschichte des Zahnsystems von *Sus scrofa* domest.
 Anat. Anz., xix, 481-490, 6 text-figs.
- 1901 B
 Ueberzählige Zähne und ihre Bedeutung.
 Deutsche Monatsschr. Zahnheilk., xix, 219-226.
- 1901 C
 Noch Einiges zur Frage nach der Beurtheilung überzähliger Zähne nebst Bemerkungen über die regressiven Entwicklungsvorgänge im Zahnsystem der Säugethiere.
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- 1902 A
 Zur Kenntniss des Zahnsystems von *Hyrax*.
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- 1903 A
 Zur Frage nach der Entstehung der heutigen Säugethierzahnformen.
 Zeitschr. Morphol. Anthrop., v, 357-382, pl. x, 5 text-figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 300-302.
- 1904 A
 Ueber den Zahnwechsel von *Cavia cobaya*.
 Anat. Anz., xxv, 141-147, 2 text-figs.
- 1904 B
 Über das Gebiss im Lichte der Entwicklungslehre.
 Schrift. phys. ökonom. Ges. Königsb., Sitz.-Ber., 54-55.

- Adloff, P.—Continued** 1905 A
Zur Entwicklung des Säugetiergebisses.
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- 1906 A
Einige Besonderheiten des menschlichen Gebisses und ihre stammesgeschichtliche Bedeutung.
Zeitschr. Morphol. Anthrop., x, 106-121.
Appended is a bibliography of 29 titles.
- 1907 A
Zur Frage der Konkreszenztheorie.
Jena. Zeitschr. Naturwiss., xliii, 530-536.
For Dependorf's rejoinder see same volume, pages 802-808.
- 1908 A
Die Differenzierung des Primatengebisses.
Zeitschr. Morphol. Anthrop., xi, 377-384.
- 1908 B
Ausgestorbene Menschenaffen und ihre Beziehungen zum Menschen.
Schrift. phys. ökonom. Ges. Königsb., xlviii, 113-116.
- 1909 A
Zur Frage der Differenzierung des Primatengebisses.
Deutsche Monatsschr. Zahnheilk., xxvii, 444-449.
- 1909 B
Überreste einer prälaktealen Zahnreihe beim Menschen.
Deutsche Monatsschr. Zahnheilk., xxvii, 828-832.
- 1910 A
Zur Entwicklungsgeschichte des Nagetiergebisses.
Anat. Anz., xxxvii, 257-271, 76 text-figs.
- 1910 B
Über den gegenwärtigen Stand der vergleichenden Morphologie des Zahnsystems der Säugetiere und des Menschen.
Ergebn. Ges. Zahnheilk., Jahrg. i, Heft 1, 226-280, 8 text-figs.
- 1911 A
Über die Phylogenese des Primatengebisses und das Zukunftsgebiss des Menschen.
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Appended is a bibliography of 13 titles.
- Adloff, P.—Continued** 1912 A
Noch einmal die Bolk'sche Hypothese und die Differenzierung des Primatengebisses.
Zeitschr. Morphol., Anthrop., xv, 381-400, pls. x-xii, 1 text-fig.
- 1913 A
Zur Frage der prälaktealen Anlagen.
Anat. Anz., xliii, 236-238.
- 1913 B
Ueber probleme der Gebissentwicklung.
Anat. Anz. Ergänzungsh., xliv, 188-195.
- 1913 C
Zur Entwicklungsgeschichte des menschlichen Zahnsystems nebst Bemerkungen zur Frage der prälaktealen Dentition, der sogenannten Konkreszenztheorie und der Entwicklung des Säugetiergebisses überhaupt.
Arch. mikr. Anat., lxxxii, 1-38, pls. i, ii, 5 text-figs.
- 1913 D
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Naturwiss. Berlin, i, 869-870.
- 1914 A
Zur Entwicklungsgeschichte des Cervidengebisses, ein Beitrag zur Frage der prälaktealen Dentition.
Anat. Anz., xli, 359-366, 15 text-figs.
- 1915 A
Probleme der Gebissentwicklung.
Zeitschr. Morphol. Anthrop., xvii, 433-448, 1 text-fig.
- 1916 A
Entwicklungsgeschichte des Zahnsystems von *Centetes ecaudatus*, nebst Bemerkungen zur Frage der Existenz einer präpermanenten Dentition.
Anat. Anz., xlix, 593-600, 8 figs.
The bibliography contains 7 titles.
- 1917 A
Zur Frage der Konkreszenztheorie.
Anat. Anz., l, 286-288.
- 1917 B
Einige Bemerkungen über das Problem der Entstehung der Zahnform.
Anat. Anz., l, 348-354.
- 1918 A
Die Beziehungen zwischen Reptilien, Beutler- und Plazentaliergebiss.
Anat. Anz., li, 129-142, 7 figs.

- Adloff, P.**—Continued 1920 A
Über das Problem der Entstehung
der Zahnform.
Anat. Anz., LIII, 175-191.
- 1920 B
Die Ontogenie der Elefantengebiss.
Anat. Anz., LII, 534-540.
- 1927 A
Das Gebiss des Menschen und der
Anthropoiden und das Abstammungs-
problem.
Zeitschr. Morphol. Anthropol., xxvi, 431-
449, 7 figs.
The bibliography appears in foot-notes.
- Adolphi, Hermann** 1896 A
Über Variationen der Spinalnerven
und der Wirbelsäule anurer Amphibien.
Morphol. Jahrb., xxv, 115-142, pl. viii.
The bibliography contains 12 titles.
- 1899 A
Ueber die Wirbelsäule und den
Brustkorb zweier Hunde.
Morphol. Jahrb., xxvii, 299-308, 1 text-fig.
- 1922 A
Über den Brustkorb und die Wir-
belsäule der Vögel.
Zeitschr. Anat. Entwicklungsges., Abt. I,
LXV, 1-149, 328-481, 70 figs.
The bibliography occupies page 481.
- Aeby, Chr.** 1873 A
Ueber das Kiefergerüst der Vögel.
Arch. Anat. Physiol. Med., 1873, 699-705,
pl. xii.
- Ärnäck-Christie-Linde, A.** 1907 A
Der Bau der Soriciden und ihre
Beziehungen zu andern Säugetieren.
Morphol. Jahrb., xxxvi, 463-514, 35 text-
figs.
- 1909 A
On intermediate forms among Chi-
roptera.
Zool. Anz., xxxiv, 572-582, 4 text-figs.
- 1912 A
On the development of the teeth of
the Soricidæ: an ontogenetical inquiry.
Ann. Mag. Nat. Hist. (8), ix, 601-625,
pls. xviii, xix, 9 text-figs.
For correction of error see Ann. Mag. Nat.
Hist. (8), x, 264.
- 1912 B
Der Bau der Soriciden und ihre
Beziehungen zu andern Säugetieren.
II: Zur Entwicklungsgeschichte der
Zähne. Ontogenie.
Morphol. Jahrb., XLIV, 201-296, pl. vi,
47 text-figs.
- Agar, W. E.** 1906 A
The development of the skull and
visceral arches in *Lepidosiren* and
Protopterus.
Trans. Roy. Soc. Edinb., XLV, 49-64, pls.
i-iii.
- 1907 A
The development of the anterior
mesoderm, and paired fins with their
nerves, in *Lepidosiren* and *Protopterus*.
Trans. Roy. Soc. Edinb., XLV, 611-639,
1 pl., 7 text-figs.
A bibliography of 36 titles is appended.
- 1909 A
On an embryonic appendage of the
claws of the *Amniota*, probably of an
adaptive nature.
Anat. Anz., xxxv, 373-380, 7 figs.
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- Agassiz, Alexander** 1877 A
On the young stages of some osseous
fishes. I: Development of the tail.
Proc. Amer. Acad. Arts Sci., XIII, 117-127,
pls. i, ii, 2 text-figs.
- Agassiz, L.** 1832 A
Untersuchungen über die fossilen
Fische der Lias-Formation.
Jahrb. Min. Geogn. Geol., 1832, 139-149.
- 1833 A
Synoptische Übersicht der fossilen
Ganoiden.
Neues Jahrb. Min. Geol. Pal., 1833, 470-
481.
From his Recherches sur les Poissons fos-
siles, 1833, II, 1-18.
- 1834 A
Abgerissene Bemerkungen über fos-
sile Fische.
Neues Jahrb. Min. Geogn. Geol., 1834,
379-390.
- 1835 B
Work of Agassiz on fossil fishes.
Edinb. New Philos. Jour., XIX, 331-346.
This is an anonymous review of Agassiz's
work, with extensive quotations.
- 1835 C
Sur un nouveau poisson fossile de
Burdiehouse.
L'Institut, III, 58.
An abstract of an address on *Megalichthys
hibberti*, but without technical description.
- 1835 D
Sur les poissons fossiles du calcaire
de Burdiehouse.
L'Institut, II, 189-190.
Abstract of a communication from Agassiz
regarding fossil fishes. Presented by Mr.
S. Hibbert.

- Agassiz, L.—Continued** 1835 E
[Remarks on *Lepisosteus*.]
L'Institut, III, 199.
- 1835 F
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- 1835 J
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- 1844 C
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- 1844 D
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- 1844 E
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- 1893 B
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- 1919 A
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- 1889 A
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- 1889 B
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- 1891 E
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- 1893 A
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- 1893 B
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- 1893 C
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- 1893 D
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Grypotherium, nom de genre à effacer.
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 An. Mus. Nac. Buenos Aires (3), I, 1-12.
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- 1902 C
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1902 D

Sur le type primitif des molaires plexodontes des mammifères.

An. Mus. Nac. Buenos Aires (3), I, 419-439, pls. i-viii, 16 text-figs.

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1903 A

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An. Mus. Nac. Buenos Aires (3), II, 81-192, 121 text-figs.

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1904 A

Recherches de morphologie phylogénétique sur les molaires supérieures des ongulés.

An. Mus. Nac. Buenos Aires (3), III, 1-541, 631 text-figs.

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1904 B

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For an extensive notice of this paper by M. Schlosser see Neues Jahrb. Min. Geol. Pal., 1906, II, Ref., 124-131.

1904 C

Nuevas especies de mamíferos, cretáceos, y terciarios de la República Argentina.

An. Soc. Cien. Argent., VI-VIII, 1-142.

1905 A

La faceta articular inferior única del astrágalo de algunos mamíferos, no es un carácter primitivo.

An. Mus. Nac. Buenos Aires (3), V, 1-64, 69 text-figs.

For abstracts see Neues Jahrb. Min. Geol. Pal., 1907, I, Ref., 475-477; Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 168-169.

1905 B

Presencia de la perforación astragaliana en el tejón (*Meles taxus* Bodd.).

An. Mus. Nac. Buenos Aires (3), V, 193-201, 3 text-figs.

Ameghino, F.—Continued

1905 C

La perforación astragaliana en los mamíferos no es un carácter originariamente primitivo.

An. Mus. Nac. Buenos Aires (3), IV, 349-460, 98 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 169.

1906 A

Les formations sédimentaires du crétacé supérieur et du tertiaire de Patagonie.

An. Mus. Nac. Buenos Aires (3), VIII, 1-568, pls. i-iii, 358 text-figs.

Pages 3-18 are an extensive bibliography.

Abstract in Rev. crit. Paléozool., XI, 65-71.

Reviewed in Nature, LXXVII, 68.

1906 B

La perforación astragaliana en Priodontes *Canis* (*Chrysocyon*) y *Typotherium*.

An. Mus. Nac. Buenos Aires (3), VI, 1-19, 15 text-figs.

Abstracts in Rev. crit. Paléozool., X, 16.

1906 C

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An. Mus. Nac. Buenos Aires (3), VI, 41-53, 12 text-figs.

Abstract in Rev. crit. Paléozool., X, 16.

1906 D

La perforación astragaliana en el *Orycteropus* y el origen de los *Orycteropidae*.

An. Mus. Nac. Buenos Aires (3), VI, 59-95, 32 text-figs.

Abstract in Rev. crit. Paléozool., X, 16.

1906 E

Les édentés fossiles de France et d'Allemagne.

An. Mus. Nac. Buenos Aires (3), VI, 175-250, 61 text-figs.

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1907 A

Notas sobre una pequeña colección de huesos de mamíferos procedentes de las grutas calcáreas de Iporanga en el Estado de São Paulo, Brazil.

Revista Mus. Paulista, VII, 59-124, 22 text-figs.

1908 A

Sobre dos esqueletos de mamíferos fósiles armados recientemente en el Museo Nacional.

An. Mus. Nac. Buenos Aires (3), IX, 35-43, 4 text-figs.

- Ameghino, F.**—Continued 1908 B
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El arco escapular de los edentados y monotremos y el origen reptiloide de estos dos grupos de mamíferos.
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Note on by Lydekker, Nature, LXXVIII, 348.
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- 1909 B
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- 1911 A
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Description of tracks from the fine-grained siliceous mudstones of the Knoydart formation (Eo-Devonian) of Antigonish County, Nova Scotia.
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- A. O. U.** 1910 A
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Prepared by a committee of the American Ornithologists' Union. Third edition (revised), 1-430 pages.
- Anderson, C.** 1925 A
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The Neocene deposits of Kern River, California, and the Temblor basin.
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Comprising an account of the zoological results of the two expeditions to western Yunnan in 1868 and 1875. London, 1878 (1879).
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- 1902 C
Some questions with reference to occipital condyles.
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Verh. internat. Zool.-Kongr., Gratz, 1910, viii, 914-921.
- 1912 B
Note on the manus of a young Indian elephant.
Rep. Brit. Assoc. Adv. Sci., 81st Meet., Portsmouth, 1911, 428.
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- 1912 D
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- 1912 E
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- 1913 A
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- 1904 A
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- 1903 D
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Univ. Ill. Bull., xvii, i-xiv+1-476 pages, pls. i-lvii, 5 text-figs.
In this extensive work the plants, the invertebrates and the vertebrates are considered. The bibliography occupies pages 404-451. In the present Bibliography and Catalogue of Fossil Vertebrata the citations are made in part to Baker's index, pages 453-476.
Review by Shufeldt in The Auk, vol. xxxvii, 634.
- 1920 B
Animal life in loess deposits near Alton, Illinois, with descriptions of two new varieties of land shells from the same deposit.
Nautilus, xxxiv, 61-66.
- 1921 A
Baker's "Life of the Pleistocene."
Auk, xxxviii, 155-156.
- Balch, Edwin Swift** 1917 A
Early man in America.
Proc. Amer. Philos. Soc., lvi, 472-483.
- Baldwin, S. Prentiss** 1894 A
Pleistocene history of the Champlain Valley.
Amer. Geologist, xiii, 170-184, 2 figs.
- Ballard, F. A.** 1880 A
Mastodon remains found in Jackson County, Missouri.
Kansas City Rev. Sci. Indust., iii, 643-644, 1 fig.
- Ballerstedt, M.** 1914 A
Bemerkungen zu den älteren Berichten über Saurierfährten im Wealdensandstein und Behandlung einer neuen, aus 5 Fussabdrücken bestehenden Spur.
Centralbl. Min., Geol., Pal., 1914, 48-64, 4 text-figs.

- Ballerstedt, M.**—Continued 1921 A
Über das Plastron der Schildkröten des Keupers und die Gestalt der Panzerschale von *Proganochelys quenstedtii* Baur nach dem Tübinger Fossil.
Palaeont. Zeitschr., iv, 64-74, 3 figs.
Abstract in Geol. Centralbl., xxxii, 476.
- Ballou, W. H.** 1897 A
Strange creatures of the past, Giant saurians of the reptilian age.
Cent. Mag. (n. s.), xxxiii (o. s. lv), 1897, 15-23, with reproductions of figures by Charles Knight.
The facts in this paper were communicated by Prof. E. D. Cope.
- 1898 A
The serpent-like sea saurians.
Pop. Sci. Month., lxi, 209-225, 2 pls., 6 text-figs.
- Ballowitz, E.** 1892 A
Das Schmelzorgan der Edentaten, seine Ausbildung im Embryo und die Persistenz seines Keimrandes bei dem erwachsenen Thier.
Arch. mikr. Anat. Bonn., xl, 133-156, pls. vi, vii.
- Bancroft, Hubert Howe** 1875 A
The native races of the Pacific states of North America. Vol. IV: Antiquities.
New York. 8vo., i-vii+1-807 pages, with numerous illustrations.
- Bangs, Outram** 1896 A
A review of the weasels of eastern North America.
Proc. Biol. Soc. Wash., x, 1-24, pls. i-iii.
- 1896 B
The Florida deer.
Proc. Biol. Soc., Wash., x, 25-28.
- 1896 C
The skunks of the genus *Mephitis* of eastern North America.
Proc. Biol. Soc. Wash., x, 139-144.
- 1896 D
A review of the squirrels of eastern North America.
Proc. Biol. Soc. Wash., x, 145-167, pls. viii-x, text-figs. 29-32.
- 1897 A
Notes on the lynxes of eastern North America, with descriptions of two new species.
Proc. Biol. Soc. Wash., xi, 47-51, pl. ii.
- Bangs, Outram**—Continued 1898 A
The land mammals of peninsular Florida and the coast region of Georgia.
Proc. Bost. Soc. Nat. Hist., xxviii, 157-235, with map and text-figs.
- Bannister, Henry M.** 1870 A
Geology of DeKalb, Kane and DuPage Counties [Illinois].
Geol. Surv. Ill., iv, 111-125.
- Baraldi, G.** 1877 A
Omologia fra gli organi accessori della respirazione dei pesci, etc.
Atti Soc. Toscano Sci. Nat., iii, 1-56, pl. v.
- Barbour, Carrie Adeline** 1898 A
Some methods of collecting, preparing and mounting fossils.
Proc. Neb. Acad. Sci., for 1896, 258-264, 1 text-fig.
- Barbour, Erwin H.** 1892 A
On a new order of gigantic fossils.
Univ. Neb. Stud., i, 301-323, pls. i-v, 18 text-figs.
- 1894 A
Additional notes on the new fossil *Daimonelix*. Its mode of occurrence; its gross and minute structure.
Univ. Neb. Stud., ii, 1-16, 12 pls.
- 1896 A
Progress made in the study of *Daemonelix*.
Proc. Neb. Acad. Sci., 1894-1895, 24-28, 18 text-figs.
- 1903 A
Report of the State Geologist.
Neb. Geol. Surv., i, 1-258, 12 pls., 163 text-figs.
- 1903 B
Present knowledge of the distribution of *Daimonelix*.
Science (n.s.), xviii, 504-505.
- 1905 A
Notice of a new fossil mammal from Sioux County, Nebraska.
Neb. Geol. Surv., ii, pt. 3, 1-4, 1 plate.
- 1905 B
A new Miocene artiodactyl.
Science (n.s.), xxii, 797-798, 1 text-fig.
Abstract in Geol. Centralbl., viii, 373.
- 1906 A
The skull of *Syndyoceras*.
Science (n.s.), xxiii, 288-289.
- 1906 B
The skulls of *Syndyoceras* and *Protoceras*.
Science (n.s.), xxiii, 623.

- Barbour, Erwin H.—Continued** 1906 C
Notice of a new Miocene rhinoceros, *Diceratherium arikarense*.
Science (n.s.), xxiv, 780-781, 2 text-figs.
- 1906 D
Notice of a new fossil rhinoceros from Sioux County, Nebraska.
Neb. Geol. Surv., II, 311-318, 5 text-figs.
Describes *Diceratherium arikarense*.
- 1908 A
The skull of *Moropus*.
Neb. Geol. Surv., III, 207-216, pls. i, ii, 5 text-figs.
- 1908 B
Skeletal parts of *Moropus*.
Neb. Geol. Surv., III, 217-222, pls. i-xi, 1 text-fig.
- 1909 A
A slab from the bone beds of Sioux County.
Neb. Geol. Surv., III, 249-252, pl. i.
- 1909 B
Restoration of *Diceratherium arikarense*; a new form of panel mount.
Neb. Geol. Surv., III, 253-258, pl. i.
- 1912 A
Skull of the giant hog *Elothierium*. A panel mount.
Neb. Geol. Surv., IV, 50-51, pl. i.
- 1913 A
A tooth of the Columbian mammoth.
Neb. Geol. Surv., IV, 58-65, pls. i, ii, 1 text-fig.
- 1914 A
A new fossil horse, *Hypotherium matthewi*.
Neb. Geol. Surv., IV, 169-173, pls. i, ii, 1 text-fig.
See also Univ. [Neb.] Studies, xiv, 197-199, pl. xiv.
- 1914 B
Mammalian fossils from Devil's Gulch.
Neb. Geol. Surv., IV, 177-190, pls. i-xiii.
See also Univ. [Neb.] Studies, xiv, 185-197, pls. i-xiii.
- 1914 C
A new longirostral mastodon from Cherry County, Nebraska.
Neb. Geol. Surv., IV, 213-322, pls. i-vi, 6 text-figs.
- 1915 A
A new longirostral mastodon. *Tetrabelodon lulli*. Preliminary notice.
Amer. Jour. Sci. (4), xxxix, 87-92, 2 figs.
- Barbour, Erwin H.—Continued** 1915 B
A new Nebraska mammoth, *Elephas hayi*.
Amer. Jour. Sci. (4), XL, 129-134, 5 text-figs.
Abstract in Geol. Zentralbl., xxv, 271.
- 1915 C
A new mount of the fossil tortoise, *Testudo orthopygia*.
Neb. Geol. Surv., IV, 335-336, 2 text-figs.
- 1916 A
A giant Nebraska bear, *Dinartotherium merriami*.
Neb. Geol. Surv., IV, 349-353, 6 figs.
- 1916 B
Evidence of the ligamentum teres in Nebraska Proboscidea.
Amer. Jour. Sci. (4), XLI, 251-254, 6 figs.
Abstract in Geol. Zentralbl., xxv, 270.
- 1916 C
A new longirostral mastodon from Nebraska, *Tetrabelodon osborni*.
Amer. Jour. Sci. (4), XLI, 522-529, 4 figs.
Abstract in Geol. Zentralbl., xxv, 270.
- 1917 A
The Boyd County mastodon *Tetrabelodon osborni*.
Neb. Geol. Surv., IV, 499-512, 12 figs.
- 1924 A
A preliminary report on the Nebraska State Museum.
Bull. Neb. State Mus., I, No. 1, 1-19, 6 figs.
- 1925 A
A new primitive mammoth from Nebraska.
Bull. Neb. State Mus., I, No. 2, 21-24, figs. 7-12.
- 1925 B
Prosthennops xiphodonticus sp. nov.
A new fossil peccary from Nebraska.
Bull. Neb. State Mus., I, No. 3, 25-31, figs. 12, 13.
- 1925 C
Tetrabelodon abeli sp. nov.
Bull. Neb. State Mus., I, No. 9, 91-94, figs. 52-57.
- 1925 D
Skeletal parts of the Columbian mammoth, *Elephas maibeni* sp. nov.
Bull. Neb. State Mus., I, No. 10, 95-118, figs. 58-87.
- 1926 A
Archidiskodon maibeni.
Bull. Neb. State Mus., I, 119-122, fig. 88.

- Barbour, Erwin H.**—Continued 1927 A
Preliminary notice of a new proboscidean, *Amebelodon fricki* gen. et sp. nov.
Bull. Neb. State Mus., I, No. 13, 131-134, figs. 89-91.
- , and **Harold J. Cook** 1914 A
Two new fossil dogs of the genus *Cynarctus* from Nebraska.
Neb. Geol. Surv., iv, 225-227, pl. i, 1 text-fig.
- 1914 B
A new saber-toothed cat from Nebraska.
Neb. Geol. Surv., iv, 235-238, pl. i, 4 text-figs.
- 1917 A
Notes on the skull of *Metoreodon*.
Neb. Geol. Surv., vii, pt. 18, 165-172, 8 text-figs.
- 1917 B
Skull of *Ælurodon platyrhinus* sp. nov.
Neb. Geol. Surv. vii, pt. 19, 173-180, 11 text-figs.
- Barbour, Thomas** 1916 A
Remarks upon Matthews' "Climate and Evolution."
Ann. N. Y. Acad. Sci. xxvii, 1-15. Followed by supplementary note by W. D. Matthew.
- 1926 A
A note on Tertiary alligators.
Copeia, No. 151, 109-111.
- , and **G. M. Allen** 1922 A
The white-tailed deer of eastern United States.
Jour. Mamm., iii, 65-78, pls. iv, v.
There is a bibliography of 15 titles.
- Bárcena, Mariano** 1882 A
El Museo nacional de Mexico; seccion de geología y paleontología.
Revista cient. Mexicana, I, No. 20, 20.
- Bardeen, Charles R.** 1905 A
The development of the thoracic vertebræ in man.
Amer. Jour. Anat., iv, 163-174, pls. i-vii.
There is a bibliography of 29 titles.
- 1905 B
Studies of the development of the human skeleton.
Amer. Jour. Anat., iv, 265-302, pls. i-xii.
There is a bibliography of 74 titles. The paper treats of the spinal column and the posterior limbs.
- Bardeleben, K.** 1885 A
Zur Entwicklung der Fusswurzel.
Jena. Zeitschr. Naturwiss. Suppl., xix, 27-32.
- 1885 B
Zur Morphologie des Hand- und Fusskelets.
Jena. Zeitschr. Naturwiss. Suppl., xix, 84-88.
- 1885 C
Ueber neue Bestandteile der Hand- und Fusswurzel der Säugethiere, sowie die normale Anlage von Rudimenten "überzähliger" Finger und Zehen beim Menschen.
Jena. Zeitschr. Naturwiss. Suppl., xix, 149-166.
- 1889 A
Praepollex und praehallux.
Anat. Anz., iv, Ergänzungsh., 106-112, 6 text-figs.
- 1889 B
On the praepollex and praehallux, with observations on the carpus of *Theriodesmus phylarchus*.
Proc. Zool. Soc. Lond., 1889, 259-262, pl. xxx.
- 1893 A
Knochen, Bänder, Muskeln.
Anat. Hefte, Ergebn., ii, 156-178.
A review of the literature. A list of 75 works on the subject is included.
- 1896 A
Knochen, Bänder, Muskeln.
Anat. Hefte, Ergebn., v, 95-126.
A review of the literature. There is a bibliography of 318 titles.
- 1901 A
Skelettsystem (ausser Schädel und Visceralskelett).
Anat. Hefte, Ergebn., x, 1-114.
This paper is preceded by a bibliography of 290 titles.
- 1903 A
Skeletsystem ausser Kopf (einschliesslich Gelenke und Gelenkmechanik).
Anat. Hefte, Ergebn., xii, 3-41.
A résumé of progress; preceded by a bibliography of 189 titles.
- 1904 A
Skelet ausser Kopf (einschliesslich Gelenke und Gelenkmechanik). Literatur 1903.
Anat. Hefte, Ergebn., xiii, 95-114.
This résumé of progress is preceded by a bibliography of 70 titles.

- Bardleben, K.**—Continued 1905 A
 Die Homologie des Unterkiefers in der Wirbeltierreihe.
 Anat. Anz. Ergänzungsh., xxvii, 16.
 A brief note, followed by brief discussions.
 See also C. R. Assoc. Anat., 1905, vii, 140;
 Verh. Anat. Ges., xix, 16-17.
- 1905 B
 Die Nicht-Homologie des Unterkiefers in der Wirbeltierreihe.
 Anat. Anz. Ergänzungsh., xxvii, 138-139.
- 1905 C
 Über den Unterkiefer der Säugetiere.
 Sitz.-Ber. Ges. naturf. Freunde Berlin, 1905, 156-159.
- 1905 D
 Spezielle Anatomie und Entwicklungsgeschichte des Menschen und der Wirbeltiere. IV: Skeletsystem. B. Chorda dorsalis, Wirbelsäule, Rippen, Sternum.
 Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 92-101.
 On page 92 is presented a list of the papers reviewed on the succeeding pages.
- 1905 E
 Der Unterkiefer der Säugetiere, besonders des Menschen.
 Anat. Anz., xxvi, 104-111.
- 1906 A
 Skelet (ausser Schädel und Viszeral-skelet). 1904 und 1905.
 Anat. Hefte, Ergebn., xv, 119-151.
 This review is preceded by a bibliography of 118 titles.
- 1907 A
 Zur vergleichenden Anatomie, besonders Paläontologie des Unterkiefers der Wirbeltiere.
 Anat. Anz., Ergänzungsh., xxx, 34-37.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 37.
- 1907 B
 Skelet (ausser Kopf) and Muskeln.
 Anat. Hefte, Ergebn., xvi, 141-165.
 The bibliography consists of 69 titles.
- 1909 A
 Ueber bilaterale Asymmetrie beim Menschen und bei höheren Tieren.
 Anat. Anz., Ergänzungsh., xxxiv, 2-72.
 The bibliography is recorded in pages 63-72.
- Bardenfleth, K. S.** 1913 A
 Notes on the form of the carnassial tooth of carnivorous mammals. (With a critical sketch of the most important tooth-cusp theories.)
 Vid. Medd. nat. For. Kjobenh., lxxv, 67-111, 15 text-figs.
 With a list of about 50 papers.
 Abstracts in Sci. Progress, viii, 630; Nature, xci, 595.
- Barkas, T. P.** 1869 A
Climaxodus ovatus and *Diplodus*.
 Geol. Mag., vi, 42.
- 1869 B
 Unusual forms of *Ctenoptychius*.
 Geol. Mag., vi, 43, 2 text-figs.
- Barkas, W. J.** 1874 B
Hybodus, a Coal-measure fish.
 Geol. Mag. (n.s.), i, 163-168, 239, 6 text-figs.
- 1874 C
Hybodus, a Coal-measure fish.
 Geol. Mag. (n.s.), i, 287-288.
- 1874 D
 List of Palæozoic fishes.
 Geol. Mag. (n.s.), i, 542-553.
- Barney, R. L., and B. J. Anson** 1923 A
 Life history and ecology of the orange-spotted sunfish, *Lepomis humilis*.
 Rep. U. S. Comm. Fish., 1922 (1923), app. 15 (Doc. 938), 1-16, 7 figs.
- Barrell, Joseph** 1907 A
 Origin and significance of the Mauch Chunk shale.
 Bull. Geol. Soc. Amer., xvii, 449-476, pls. xlix-lii, 1 text-fig.
- 1915 A
 Factors in movements of the strand line and their results on the Pleistocene and post-Pleistocene.
 Amer. Jour. Sci. (4), xl, 1-22.
 Abstract in Jour. Wash. Acad. Sci., v, 413-420.
- 1915 B
 Influence of Silurian-Devonian climates on the rise of air-breathing vertebrates.
 Bull. Geo. Soc. Amer., xxvii, 387-436, 2 text-figs.
- 1917 A
 Probable relations of climatic change to the origin of the Tertiary ape-man.
 Scient. Monthly, iv, 16-26.

- Barrett-Hamilton, G. E. H.** 1897 A
The Pacific walrus (*Trichechus obesus*).
Proc. Zool. Soc. Lond., 1897, 266-267.
This refers to *Odobenus divergens*.
- Barrows, Walter B.** 1885 A
Natural history of birds: Hawks, owls.
Stand. Nat. Hist., III, 260-348, figs. 124-157.
- Barton, Benjamin Smith** 1805 A
Letter to M. Lacépède of Paris, on the natural history of America.
Tilloch's Philos. Mag, XXII, 97-193, 204-211.
- 1805 B
[On the *Megalonyx* of Mr. Jefferson.]
Phila. Med., Phys. Jour., I, pt. i, 152-154.
- 1805 C
On the mammoths found at Big Bone Lick.
Phila. Med., Phys. Jour., I, pt. i, 154-159.
- 1805 D
[Remarks on a communication from Mr. John Heckewelder regarding *Megalonyx*.]
Phila. Med., Phys. Jour., I, pt. ii, 164-165.
- 1806 A
Facts, observations, and conjectures relative to the elephantine bones (of different species) that are found in various parts of North America. In a letter from the Editor to Mr. G. Cuvier, of Paris.
Phila. Med., Phys. Jour. First supplement, 22-34, with notes on this letter, 34-35.
Forms a part of the *Archæologia Americana*.
- 1806 B
(Regarding specimens of mammoth).
Phila. Med., Phys. Jour., II, pt. i, 157.
- 1806 C
[Remarks on skull of peccary from saltpeter cave in Kentucky.]
Phila. Med., Phys. Jour., II, pt. i, 158.
- 1810 A
[Letter from Doctor Barton to Thomas Jefferson.]
The Portfolio, Philadelphia, (3) IV, 340-344.
The writer discusses the generic position of the mastodon of Ohio.
- 1814 A
Archæologia Americanæ telluris collectanea et specimina.
Part I, Phila., 1814, 8vo., i-viii, 10-64.
- Bassani, Francesco** 1890 A
Colonna vertebrale di *Oxyrhina mantelli* Agassiz, scoperta nel Calcare Senoniano di Castellavazzo nel Bellunese.
Mem. Soc. ital. Sci. (3), VII, Mem. 1, 1-6, 3 pls.
This paper may have been issued in 1888 as a separate.
- 1891 A
Contributo alla paleontologia della Sardegna ittioliti miocenici.
Atti Accad. Sci. Napoli (2), IV, No. 3, i-viii+1-60, pls. i, ii.
A bibliography occupies pages iii-viii.
There are full synonymies of the species.
- 1895 A
Avanzi di *Carcharodon auriculatus* scoperti nel Calcare eocenico di Valle Gallina presso Avesa (provincia di Verona).
Mem. Accad. Agric., Verona, LXXI, 1-13, 1 plate.
Abstract in Neues Jahrb. Min. Geol. Pal., Ref., 527.
- 1899 A
Abstract in Geol. Mag. (3), VIII, 476.
- 1901 A
Il *Notidanus griseus* Cuvier nel Pliocene della Basilicata e di altre regione italiane e straniera.
Rend. Accad. Sci., Napoli (3), VII, 175-180, 1 fig.
Brief notice in Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 315.
- 1905 A
La ittiofauna delle argille marnose plioceniche di Taranto e di Nardo (Terra d'Otranto).
Atti Accad. Sci. Napoli (2), XII, No. 3, 1-59, i-iii.
The bibliography is recorded on pages 3 to 8.
- Bassler, Ray S.** 1919 A
Report on work in paleontology.
Rep. U. S. Nat. Mus., 1918 (1919), 60-62.
- Bassoli, G. G.** 1906 A
Otoliti fossili terziari dell' Emilia.
Riv. ital. Pal., XII, 36-58, pls. i, ii.
Citations of the literature in foot-notes.
- Bate, Dorothea M. A.** 1914 A
On remains of a gigantic land tortoise (*Testudo gymnesicus* n. sp.) from the Pleistocene of Menorca.
Geol. Mag. (6), I, 100-107, 2 text-figs.

- Batelli, Andrea** 1880 A
Beiträge zur Kenntniss des Baues
der Reptilien.
Arch. mikr. Anat. Bonn, xvii, 346-361, pls.
xxxiv, xxxv.
- Bateson, W.** 1892 A
On numerical variation in teeth,
with a conception of homology.
Proc. Zool. Soc. Lond., 1892, 102-115, 6
figs.
- Bauer, Franz** 1901 A
Ichthyosaurus bambergensis spec.
nov. Beschreibung einer neuen *Ich-*
thyosaurus-Art aus dem oberen Lias
von Geisfeld, nebst einigen vergleich-
end-anatomischen Bemerkungen über
den Schultergürtel.
Ber. naturf. Ges. Bamberg, xviii, 1-56,
pls. i, ii.
- Baum, Hermann** 1920 A
Anatomische Betrachtungen über die
Zähne des Säugetiere.
Verh. Anat. Ges., xxix, 17-27, figs. 1-19.
- Baumgarten, [Hans]** 1892 A
Beiträge zur Entwicklungsgeschichte
der Gehörknöchelchen.
Arch. mikr. Anat. Bonn., xl, 512-530, pl.
xxx.
- Baur, Georg** 1885 L
Preliminary note on the origin of
limbs.
Amer. Naturalist, xix, 1112.
- 1885 M
Einige Bemerkungen über die Ossi-
fication der "langen" Knochen.
Zool. Anz., viii, 580-581.
- 1885 N
Zum Tarsus der Vögel.
Zool. Anz., viii, 488.
- 1886 N
Das Trapezium der Cameliden.
Morphol. Jahrb., vii, 117-118.
- 1886 O
The intercentrum of living Reptilia.
Amer. Naturalist, xx, 174-175.
- 1887 G
Remarks on *Hyperodapedon*, etc.
Quart. Jour. Geol. Soc., xliii, 694.
- 1887 H
Ueber das Quadratum der Säugethiere.
Sitz.-Ber. Ges. Morphol. Physiol. Mün-
chen., ii, 45-57.
Same as Baur, G., 1886 A. See also Quart.
Jour. Micr. Sci. (n.s.), xxviii, 169-180.
- Baur, Georg—Continued** 1888 A
Dermochelys, *Dermatochelys* oder
Sphargis.
Zool. Anz., xi, 44-45.
- 1889 L
Palæohatteria Credner and the *Pro-*
ganosauria.
Amer. Jour. Sci. (3), xxxvii, 310-313.
- 1890 F
Kadaliosaurus priscus Credner, a
new reptile from the Lower Permian
of Saxony.
Amer. Jour. Sci. (3), xxxix, 156-158.
- 1891 E
On the relations of *Carettochelys*
Ramsay.
Amer. Naturalist, 631-638.
- 1891 F
Intercalation of vertebræ.
Jour. Morphol; iv, 331-336.
- 1892 D
Der Carpus der Schildkröten.
Anat. Anz., vii, 206-211, figs. 1-4.
- 1893 D
Ueber Rippen und ähnliche Gebilde
und deren Nomenclatur.
Anat. Anz., ix, 116-120.
13 titles in foot-notes.
- 1894 B
Ueber den ProAtlas einer Schild-
kröte (*Platypeltis spinifer* Les.).
Anat. Anz., x, 349-354, figs. 1-6.
The bibliography includes 30 titles.
- 1896 D
Der Schädel einer neuen grossen
Schildkröte (*Adelochelys*) aus dem
Zoologischen Museum in München.
Anat. Anz., xii, 314-319, 4 figs.
- 1896 E
Nachtrag zu meiner Mitteilung über
die Morphologie des Unterkiefers der
Reptilien.
Anat. Anz., xi, 569.
Relates to Baur G., 1895 D.
- 1896 F
Historische Bemerkungen.
Internat. Monatschr. Anat. Physiol., iii,
Heft. 1.
Reviews Paul Gervais' "Théorie du sque-
lette humain," etc., 1886.
- 1897 D
Remarks on the question of inter-
calation of vertebræ.
Zool. Bull., i, 41-55.
- 1897 E
Amphibia or Batrachia.
Science (n.s.), vi, 170-174.

- Baur, Georg**—Continued 1897 F
Amphibia or Batrachia.
Science (n.s.), vi, 372.
- 1898 A
Review of G. A. Boulenger: "On a nothosaurian reptile," etc.
Neues Jahrb. Min. Geol. Pal., 1898, i, Ref., 146-149.
- Bayer, Franz** 1897 A
Sur le tentorium osseum chez les mammifères.
Bibl. Anat., v, 147-150, pls. i, ii.
- 1908 A
Neue Reste der Gattung *Porthicus* Cope (*Xiphactinus* Leidy) aus der böhmischen Kreide.
Trans. Bohem. Acad. Sci., xvii, art. 19, 1-11, 1 pl., 4 text-figs.
Rozpr. Cheské Ak. Frant. Jos., 1908 (12), 1 pl.
Title and text in Bohemian.
- 1909 A
Neue Reste von *Porthicus* Cope (*Xiphactinus* Leidy) aus dem böhmischen Turon.
Bull. internat. Acad. Sci., Prague, xiv, 98-103, pl., 4 text-figs.
- Bayley, W. S., H. B. Kümmel, and R. D. Salisbury** 1914 A
Description of the Raritan [N. J.] quadrangle.
Folio No. 191, U. S. Geol. Surv., 1-33, 5 maps, 21 text-figs.
- Bean, Barton A.** 1904 A
Notes on an adult goblin shark (*Mitsukurina owstoni*) of Japan.
Proc. U. S. Nat. Mus., xxviii, 815-818, 2 text-figs.
- Beard, J. Carter** 1901 A
Three characteristic types of American dinosaurs.
Scient. Amer. LXXXIV, 184-185, one figure.
- 1901 B
Something about ancient American saurians.
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- 1885 A
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- 1885 B
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- Blatschke, Friedrich** 1904 A
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De *Merycotherii sibirici*, gigantei animalis ruminantis antediluviano quodam, dentibus incerto Siberiæ loco erutis, declarato vestigio commentatio. Nova Acta Acad. Leop. Carol., XII, 263-278, pls. xxi, xxii.
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Jena, 8vo., i-viii+1-181 pages, double plates i-iii, 61 text-figs.
- 1915 A
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Zeitschr. Morphol. Anthropol., XVII, 83-116, pl. ix, 7 text-figs.
- 1915 B
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Proc. Akad. Wet. Amsterdam, XVIII, 191-201, 3 figs.
- 1916 A
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- 1921 A
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- 1921 B
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- 1921 C
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- 1922 A
On the relation between reptilian and mammalian teeth.
Jour. Anat. Lond., LVI, 107-136, figs. 97-107.
- 1922 B
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Jour. Anat. Lond., LVII, 55-75, figs. 103-123.
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- 1923 B
The problem of orthognathism.
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- Bolton, H. Carrington** 1888 A
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- 1833 A
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 A review and criticism of Cuvier's work.
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- 1836 A
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- 1838 A
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- 1838 B
 Synopsis vertebrorum systematis.
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- Bonsdorff, E. J.** 1871 A
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 The literature examined is cited in footnotes.
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 Rev. Scient. Paris, XLIX, 333-339, 8 text-figs.
- Borden, William W.** 1874 A
 Report of a geological survey of Clarke and Floyd Counties, Indiana.
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- Born, G.** 1827 A
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- Bose, P. N.** 1880 A
 Undescribed fossil Carnivora from the Sivalik Hills in the collection of the British Museum.
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- Botez, Ioan G.** 1921 A
 Sur quelques tortues éocènes du genre *Ocadia*.
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- Botezat, E.** 1903 A
 Gestaltung und Klassifikation der Geweihe des Edelhirsches, nebst einem Anhang über die Stärke der Karpathenhirsche und die zwei Rassen derselben.
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 Untersuchung über die Hyperplasie an Rehgeweißen mit Berücksichtigung der übrigen Cerviden.
 Arch. Entwickl.-mech. Organ., XVIII, 593-607, pl. xxxvi.
- Botti, Ulderigo** 1877 A
 Sopra una nuova specie di *Myliobates*.
 Atti Soc. Toscana Sci. Nat., III, 371-382, 1 fig.
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Sui molari di elefante.
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- Boule, Marcellin** 1891 A
Les grands animaux fossiles de l'Amerique.
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Revision des espèces européennes de *Machairodus*.
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- Boulenger, G. A.** 1885 B
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- 1890 A
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- 1891 C
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- 1893 B
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Note on the variations of the lateral shields in the three-spined stickleback (*Gasterosteus aculeatus*).
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- 1895 C
Catalogue of the perciform fishes of the British Museum.
Vol. I, Containing the Centrarchidæ, Percidæ and Serranidæ (part). 8vo., London, i-xix+1-394 pages, pls. i-xv, 27 text figs.
- 1895 D
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- 1903 A
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- Breunig, Stephan** 1924 A
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- Brohl, Engelbert** 1909 A
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Note on the dicynodont vomer.
Nature, XCII, 6-7.
Abstract in Sci. Progress, VIII, 643.
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- 1913 N
The origin of mammals.
Proc. Roy. Soc. Lond. (B), LXXXVII, 87-88 (Abstract of lecture).
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- 1913 O
On the South-African pseudosuchian *Euparkeria* and allied genera.
Proc. Zool. Soc. Lond., 1913, 613-633, pls. lxxv-lxxix.
There is a bibliography of 6 titles.
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- 1913 P
On the Gorgonopsia, a suborder of the mammal-like reptiles.
Proc. Zool. Soc. Lond., 1913, 225-230, pls. xxxvi, xxxvii.
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- 1914 A
Some points in the structure of the diadectid skull.
Bull. Amer. Mus. Nat. Hist., XXXIII, 109-114, 4 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 473; Geol. Zentralbl., XXI, 265; XXVIII, 445.

- Broom, Robert**—Continued 1914 B
On the structure and affinities of the Multituberculata.
Bull. Amer. Mus. Nat. Hist., xxxiii, 115-134, pls. xi, xii, 9 text-figs.
Abstracts in Bull. Geol. Soc. Amer., xxv, 140-141; Rev. crit. Paléozool., xviii, 99; Geol. Zentralbl., xxi, 301; xxvii, 222; Nature, xciii, 619, fig.
- 1914 C
A further comparison of the South African dinocephalians with the American pelycosaurs.
Bull. Amer. Mus. Nat. Hist., xxxiii, 135-141, 7 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 472-473; Geol. Zentralbl., xxviii, 446.
- 1914 D
Structure and affinities of the Multituberculata.
Bull. Geol. Soc. Amer., xxv, 140-141.
Abstract.
- 1914 E
Relations of the American pelycosaurs to the South African dinocephalians.
Bull. Geol. Soc. Amer., xxv, 143.
Abstract.
- 1914 F
Conference on convergent evolution.
Ann. N. Y. Acad. Sci., xxii, 295-299.
- 1914 G
The origin of mammals.
Ann. N. Y. Acad. Sci., xxiii, 302-306.
- 1914 H
A new thecodont reptile.
Proc. Zool. Soc. Lond., 1914, 1072-1077, 2 text-figs.
- 1915 A
On the organ of Jacobson and its relations in the "Insectivora." Part II: *Talpa*, *Centetes*, and *Chrysochloris*.
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- 1915 B
On the Triassic stegocephalians *Brachyops*, *Bothriceps*, and *Lydekkerina*, gen. nov.
Proc. Zool. Soc. Lond., 1915, 363-368, 3 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, 137.
- 1915 C
On the origin of mammals.
Phil. Trans. Roy. Soc. Lond. (B), ccvi, 1-48, pls. i-vii.
The bibliography comprises 99 titles.
- Broom, Robert**—Continued 1916 A
On the structure of the skull in *Chrysochloris*.
Proc. Zool. Soc. Lond., 1916, 449-459, pls. i, ii, 3 text-figs.
Abstract in Nature, xcvi, 315.
- 1916 B
Pareiasaurian nomenclature.
Ann. Mag. Nat. Hist. (8), xvii, 347-348.
- 1916 C
Discussion on the "Biologia Centrali-Americana."
Proc. Zool. Soc. Lond., 1916, 549-550.
- 1917 A
Comments on nomenclature of cranial elements.
Bull. Geol. Soc. Amer. xxviii, 975-978.
- 1918 A
Observations on the genus *Lysorophus* Cope.
Ann. Mag. Nat. Hist. (9), ii, 232-239, 3 text-figs.
- 1921 A
On the structure of the reptilian tarsus.
Proc. Zool. Soc. Lond., 1921, pt. 1, 143-155, figs. 1-27.
Abstract in Sci. Progress, xvi, 215.
- 1921 B
On some genera and species of anomodont reptiles from the Karroo beds of South Africa.
Proc. Zool. Soc. Lond., 1921, 647-674, 45 figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, Ref., 145-147.
- 1922 A
On the temporal arches of the Reptilia.
Proc. Zool. Soc. Lond., 1922, 17-26.
- 1922 B
On the persistence of the mesopterygoid in certain reptilian skulls.
Proc. Zool. Soc. Lond., 1922, 455-460, 7 figs.
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- 1923 A
On the structure of the skull in the carnivorous dinocephalian reptiles.
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- Broom, Robert**—Continued 1924 A
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Proc. Zool. Soc. Lond., 1924, 499-508, figs. 1-6.
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- 1924 B
On the classification of the reptiles.
Bull. Amer. Mus. Nat. Hist., LI, 39-65, 13 figs.
- 1924 C
Further evidence on the structure of the *Eosuchia*.
Bull. Amer. Mus. Nat. Hist., LI, 67-76, 4 figs.
- 1925 A
On the origin of lizards.
Proc. Zool. Soc. Lond., 1925, pt. 1, 1-16, 8 figs.
- 1926 A
On the mammalian presphenoid and mesethmoid bones.
Proc. Zool. Soc. Lond., 1926, 257-264, 5 figs.
- 1927 A
Fossil hunting in the South African Karroo.
Nat. Hist., xxvii, 73-76, 3 figs.
- , and S. H. **Haughton** 1913 A
On the skeleton of a new pareiasaurian (*Pareiasuchus peringueyi* g. et sp. nov.).
Ann. S. Afric. Mus., xii, 17-25, pls. iv-v.
- 1913 B
On a new species of *Scymnognathus* (*S. tigriceps*).
Ann. S. Afric. Mus., xii, 26-35, pl. vi.
- 1913 C
On two new species of *Dicynodon*.
Ann. S. Afric. Mus., xii, 36-39, pl. vii.
- Brower, Charles D.** 1911 A
The musk-ox in Alaska.
Bull. Zool. Soc. N. Y., No. xlv, 754-755.
- Brown, Arthur Erwin** 1878 A
The Sirenia.
Amer. Naturalist, xii, 291-298.
- 1901 A
On some points in the phylogeny of the Primates.
Proc. Acad. Nat. Sci. Phila., LIII, 119-125.
Abstract in Geol. Centralbl., III, 59.
- Brown, Arthur Erwin**—Cont'd. 1904 A
Post-glacial nearctic centres of dispersal for reptiles.
Proc. Acad. Nat. Sci. Phila., LVI, 464-474.
- 1904 B
The zoology of North American big game.
Pages 52-98 in "American Big Game and Its Haunts," by George Bird Grinnell.
- Brown, Barnum** 1903 A
A new genus of ground sloth from the Pleistocene of Nebraska.
Bull. Amer. Mus. Nat. Hist., xix, 569-583, pls. 1-li.
Describes *Paramylodon nebrascensis*.
Abstracts in Geol. Centralbl., vi, 54;
Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 471; Rev. crit. Paléozool., ix, 69; x, 140.
- 1904 A
Stomach stones and food of plesiosaurs.
Science (n.s.), xx, 184-185.
Abstracts in Geol. Centralbl., vii, 426;
Rev. crit. Paléozool., x, 143-144.
- 1905 A
Recent exploration of a Pleistocene fissure in northern Arkansas.
Science (n.s.), xxi, 300.
- 1905 B
The osteology of *Champsosaurus* Cope.
Mem. Amer. Mus. Nat. Hist., ix, 1-26, pls. i-iv.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 132; Geol. Centralbl., xi, 474;
Sci. Progress, I, 459.
- 1906 A
New notes on the osteology of *Triceratops*.
Bull. Amer. Mus. Nat. Hist., xxii, 297-300, pl. xl, 2 text-figs.
Brief abstracts in Geol. Centralbl., xi, 475; Neues Jahrb. Min. Geol. Pal., 1908, I, Ref., 442.
- 1907 A
The Hell Creek beds of the Upper Cretaceous of Montana.
Bull. Amer. Mus. Nat. Hist., xxiii, 823-845, 8 text-figs., two maps and lists of fossils found.
Abstracts in Geol. Centralbl., xiv, 326;
Amer. Jour. Sci. (4), xxv, 86.
- 1907 B
Gastroliths.
Science (n.s.), xxv, 392.

Brown, Barnum—Continued

1908 A

The Conrad fissure, a Pleistocene bone deposit in northern Arkansas; with description of two new genera and twenty new species of mammals.

Mem. Amer. Mus. Nat. Hist., New York, ix, 157-208, pls. xiv-xxv, 3 text-figs.

Abstracts in Amer. Naturalist, XLII, 629; Neues Jahrb. Min. Geol. Pal., 1912, I, Ref., 358-360; Geol. Centralbl., XII, 220; Amer. Jour. Sci. (4), XXVII, 93; Sci. Progress, III, 454, 457.

Review in Rev. crit. Paléozool., XVI, 221.

1908 B

The Ankylosauridæ, a new family of armored dinosaurs from the Upper Cretaceous.

Bull. Amer. Mus. Nat. Hist., XXIV, 187-201, 20 text-figs.

Abstracts in Amer. Jour. Sci. (4), XXV, 528; Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 440-441; Geol. Centralbl., XIII, 204; Zeitschr. Indukt. Abstamm. Vererb.-Lehre, II, 1909, 28; Jahresber. Anat. Entwickl. (N.F.), XIV, pt. 3, 160; Sci. Progress, III, 461.

1908 C

The *Trachodon* group.

Amer. Mus. Jour., VIII, 51-56, 4 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 145; Geol. Centralbl., XII, 222.

1909 A

Notes on the restorations of the Cretaceous birds *Hesperornis* and *Baptornis*.

Science (n.s.), XXXI, 440.

1910 A

The Cretaceous Ojo Alamo beds of New Mexico with description of the new dinosaur genus *Kritosaurus*.

Bull. Amer. Mus. Nat. Hist., XXVIII, 267-274, pls. xxvii-xxix, 7 text-figs.

Abstracts in Geol. Centralbl., XVII, 323; Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 210; Sci. Progress, V, 681.

Review in Rev. crit. Paléozool., XVI, 233.

1911 A

Notes on the restorations of the Cretaceous birds *Hesperornis* and *Baptornis*.

Ann. N. Y. Acad. Sci., XX, 401.

1911 B

Fossil hunting by boat in Canada.

Amer. Mus. Jour., XI, 273-282, 12 figs.

Brown, Barnum—Continued

1912 A

The osteology of the manus in the family Trachodontidæ.

Bull. Amer. Mus. Nat. Hist., XXXI, 105-108, 2 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1913, I, Ref., 525; Geol. Centralbl., XX, 145; Rev. crit. Paléozool., XVII, 74.

1912 B

A crested dinosaur from the Edmonton Cretaceous.

Bull. Amer. Mus. Nat. Hist., XXXI, 131-136, pls. x, xi, 4 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1913, I, Ref., 525; Geol. Centralbl., XX, 146; Rev. crit. Paléozool., XVII, 76.

1912 C

Brachyotracodon, a new genus of glyptodonts from Mexico.

Bull. Amer. Mus. Nat. Hist., XXXI, 167-177, pls. xiii-xviii, 4 text-figs.

Abstracts in Sci. Progress, VIII, 10; Geol. Centralbl., XX, 145.

1912 D

Fossil hunting by boat in Canada.

Scient. Amer. Suppl., LXXIII, 82.

1913 A

The skeleton of *Saurolophus*, a crested duck-billed dinosaur from the Edmonton Cretaceous.

Bull. Amer. Mus. Nat. Hist., XXXII, 387-393, pls. lxii, lxiii, 1 text-fig.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 336; Sci. Progress, VIII, 639; Rev. crit. Paléozool., XVIII, 54; Geol. Zentralbl., XXI, 265; Nature, XCII, 514.

1913 B

A new trachodont dinosaur, *Hypacrosaurus*, from the Edmonton Cretaceous of Alberta.

Bull. Amer. Mus. Nat. Hist., XXXII, 395-406, 8 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 336; Sci. Progress, VIII, 639; Rev. crit. Paléozool., XVIII, 53; Geol. Zentralbl., XXI, 265.

1913 C

A new plesiosaur, *Leurospondylus*, from the Edmonton Cretaceous of Alberta.

Bull. Amer. Mus. Nat. Hist., XXXII, 605-615, 7 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 510-511; Rev. crit. Paléozool., XXI, 52; Geol. Zentralbl., XXI, 264; Nature, XCII, 563.

- Brown, Barnum—Continued** 1913 D
A new crested dinosaur.
Amer. Mus. Jour., xiii, 133-144, 7 plates.
Abstract in Nature, xci, 326.
- 1913 E
The manus of trachodont dinosaurs.
Science (n.s.), xxxviii, 926-927.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, 1, Ref., 508; Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 145.
- 1914 A
Anchiceratops, a new genus of horned dinosaurs from the Edmonton Cretaceous of Alberta. With discussion of the origin of the ceratopsian crest and the brain casts of *Anchiceratops* and *Trachodon*.
Bull. Amer. Mus. Nat. Hist., xxxiii, 539-548, pls. xxix-xxxvii, 1 text-fig.
Abstracts in Rev. crit. Paléozool., xix, 102; xxi, 53; Geol. Zentralbl., xxviii, 446.
- 1914 B
A complete skull of *Monoclonius*, from the Belly River Cretaceous of Alberta.
Bull. Amer. Mus. Nat. Hist., xxxiii, 549-558, pls. xxxviii-xl, 2 text-figs.
Abstract in Rev. crit. Paléozool., xix, 102; xx, 140; Geol. Zentralbl., xxviii, 445.
- 1914 C
Corythosaurus casuarius, a new crested dinosaur from the Belly River Cretaceous, with provisional classification of the family Trachodontidae.
Bull. Amer. Mus. Nat. Hist., xxxiii, 559-565; pl. xli.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1919, Ref., 356; Rev. crit. Paléozool., xix, 102; xx, 138-139; Geol. Zentralbl., xxviii, 445; Nature, xciv, 492, fig.
- 1914 D
Leptoceratops, a new genus of *Ceratopsia* from the Edmonton Cretaceous of Alberta.
Bull. Amer. Mus. Nat. Hist., xxxiii, 567-580, pl. xlii, 19 text-figs.
Abstracts in Rev. crit. Paleozool., xix, 102; xx, 139; Neues Jahrb. Min. Geol. Pal., 1920, 1, Ref., 247; Geol. Zentralbl., xxviii, 376.
- 1914 E
Cretaceous-Eocene correlation in New Mexico, Wyoming, Montana, Alberta.
Bull. Geol. Soc. Amer., xxv, 355-380, 2 text-figs.
Abstract in Rev. crit. Paléozool., xx, 37.
- Brown, Barnum—Continued** 1915 A
Tyrannosaurus, the largest flesh-eating animal that ever lived.
Amer. Mus. Jour., xv, 271-280, 5 plates, 2 figures.
- 1915 B
Fossil hunting by boat in Canada. Handbook series No. 5, Amer. Mus. Nat. Hist., New York, 152-159, figs. 47, 48.
- 1915 C
Tyrannosaurus, a Cretaceous carnivorous dinosaur.
Scient. Amer., cxiii, 322-323, 6 figs.
Abstract in Nature, xcvi, 326.
- 1916 A
A new crested trachodont dinosaur *Prosaurolophus maximus*.
Bull. Amer. Mus. Nat. Hist., xxxv, 701-708, 5 text-figs.
Abstracts in Rev. crit. Paléozool., xxi, 55; Neues Jahrb. Min. Geol. Pal., 1920, 1, Ref., 246.
- 1916 B
Corythosaurus casuarius: Skeleton, musculature and epidermis.
Bull. Amer. Mus. Nat. Hist., xxxv, 709-716, pls. xiii-xxii.
Abstracts in Rev. crit. Paléozool., xxi, 55; Nature, xcvi, 356; Neues Jahrb. Min. Geol. Pal., 1919, Ref., 356.
- 1917 A
A complete skeleton of the horned dinosaur *Monoclonius*, and description of a second skeleton showing skin impressions.
Bull. Amer. Mus. Nat. Hist., xxxvii, 281-306, pls. xi-xix, 4 text-figs.
Abstracts in Rev. crit. Paléozool., xxiv, 146-147; Geol. Zentralbl., xxviii, 534; Sci. Progress, xii, 425.
- 1917 B
Monoclonius, a Cretaceous horned dinosaur.
Amer. Mus. Jour., xvii, 135-140, 4 illust.
- 1919 A
Hunting big game of other days. A boating expedition in search of fossils in Alberta, Canada.
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- 1920 A
Note on scapula of an armored dinosaur.
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- Brown, J. S.** 1904 A
Mammoth tooth [found at Austin, Texas.]
Scient. Amer., xc, 119.
- Brown, Robert** 1868 A
Notes on the history and geographical relations of the Cetacea frequenting Davis Strait and Baffin's Bay.
Proc. Zool. Soc. Lond., 1868, 533-556.
- Bru, Jean-Baptiste** 1804 A
Description des os du *Megatherium*, faite en montant le squelette.
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An abridged translation made by Bonp'and. A description of the South American species.
- Brubacher, H.** 1892 A
Uebermässiges, ungewöhnliches Wachstum der Schneidezähne bei Nagethieren.
Deutsche Monatsschr. Zahnheilk., x, 1-5, 4 figs.
There is a bibliography of 13 titles.
- Bruch, C.** 1853 A
Ueber die Entwicklung der Clavicula und die Farbe des Blutes.
Zeitschr. wiss. Zool., iv, 371-376.
- 1862 A
Vergleichung des Schädels mit der Wirbelsäule des Lachses, mit einer Aufzählung sämtlicher Skelettheile desselben nach der Art ihrer Zusammensetzung.
Abh. Senckenb. naturf. Ges., iv, 73-130, 10 text-figs.
- Bruch, Phil.** 1853 A
Monographische Uebersicht der Gattung *Larus* Lin.
Jour. Ornith., i, 96-108.
- Brühl, Carl Bernhard** 1862 A
Icones ad zootomiam illustrandam: Das Skelet der Crocodile dargestellt in 20 Tafeln.
Folio, Vienna, 1862.
- Bruni, Angelo Cesare** 1910 A
Sui primi stadi di sviluppo della colonna vertebrale dei Rettili e degli Uccelli.
Atti Accad. Sei. Torino, xlv, 750-757, 1 pl.
- Brunner, Josef** 1904 A
The vanishing beaver, the original woodcutter, engineer and irrigator.
Country Life in America, v, 476-481, 523-526, 18 text-figs.
- Brunner, Josef—Continued** 1905 A
The devastating squirrel. Some evidence that he is an enemy of the forest, since he destroys the birds that would keep down harmful insects.
Country Life in America, vii, 264-269, 9 text-figs.
- Bruyère, Henri** 1901 A
Le Ceratodus.
La Nature, xxix, 89-91, 1 text-fig.
- Bryan, Kirk** 1923 A
Erosion and sedimentation in the Papago Country, Arizona.
Bull. U. S. Geol. Surv., dcccxxx, 19-90, map, pls. x-xviii, 25 text-figs.
- 1927 A
The "Palouse soil" problem, with an account of elephant remains in wind-borne soil on the Columbia Plateau of Washington.
Bull. U. S. Geol. Surv., dcccxc, 19-45, pls. iv-vii.
- , and J. W. Gidley 1926 A
Vertebrate fossils and their enclosing deposits from the shores of Pleistocene Lake Cochise, Arizona.
Amer. Jour. Sci. (5), xi, 477-488, 2 figs.
- Bryan, William Alanson** 1927 A
A Pleistocene park in the making.
Mus. Graphic, i, 77-82, with figs.
- Bryant, Harold C.** 1914 A
Teeth of a cestraciont shark from the Upper Triassic of northern California.
Bull. Dept. Geol., Univ. Calif., viii, 27-30, 2 text-figs.
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- 1914 B
Vertebrate fauna of the Triassic limestones at Cow Creek, Shasta County, California.
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- Bryant, William L.** 1916 A
The restoration of *Dinichthys magnificus* Hussakof and Bryant.
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- 1919 A
On the structure of *Eusthenopteron*.
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A new species of *Bothriolepis* from the Upper Devonian of Canada.
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- Bryant, William L.**—Continued 1926 A
Evidence of the presence of chor-
dates in the Cambrian.
Bull. Geol. Soc. Amer., xxxvii, 236 (ab-
stract).
— 1926 B
On the structure of *Palæaspis* and
on the occurrence in the United States
of fossil fishes belonging to the family
Pteraspidae.
Proc. Amer. Philos. Soc., lxxv, 256-271.
pls. i-iii, 3 text-figs.
— See **Hussakof and Bryant**.
- Buckland, Francis Trevelyan** 1838 A
On fossil remains of *Megatherium*.
Rep. Brit. Assoc. Adv. Sci., 1st and 2d
Meet., 1837 (1838), 104-107.
Abstract in Neues Jahrb. Min. Geogr.
Geol. Jahrg., 1834, Ref., 112-113.
- Buckley, E. C.** 1903 A
Distribution of mastodon remains in
Wisconsin.
Science (n.s.), xvii, 297.
- Buckley, S. B.** 1866 A
A preliminary report of the geolog-
ical and agricultural survey of Texas,
Austin, 1866.
Pages 1-81, with appendix, pages 1-4.
— 1874 A
First annual report of the Geolog-
ical and Agricultural survey of Texas,
Houston, 1874.
Pages 1-142.
— 1876 A
Second annual report of the geolog-
ical and agricultural survey of Texas,
Houston, 1876.
Pages 1-96.
- Bugnion, E.** 1901 A
L'articulation de l'épaule chez les
animaux et chez l'homme.
C. R. Assoc. Anatomistes, Lyons, iii, 93-
104, figs. 1, 2.
- Buist, T. P.** 1912 A
On the development of the pectoral
girdle in the pipefish (*Syngnathus*
acis).
Ann. Mag. Nat. Hist. (8), x, 613-621, pls.
xiii.
- Bulman, O. M. B., and W. F. Whittard**
1926 A
On *Branchiosaurus* and allied genera
(Amphibia).
Proc. Zool. Soc. Lond., 1926, 533-579, pls.
i-iii, 15 text-figs.
The synonymy and literature are cited
under the various species.
- Burckhardt, R.** 1902 A
Das Problem des antarktischen
Schöpfungscentrums vom Standpunkt
der Ornithologie.
Zool. Jahrb. Syst., xv, 499-536.
See Neues Jahrb. Min. Geol. Pal., 1905,
i, Ref., 338-339.
— 1903 A
IV. Skeletsystem. D: Palaeontolo-
gisches.
Jahresber. Anat. Entwickl. (N.F.), viii,
pt. 3, 77-129.
On pages 77-84 is a list of papers, ab-
stracts of most of which are presented on
the succeeding pages.
— 1905 A
Spezielle Anatomie und Entwick-
lungsgeschichte des Menschen und der
Wirbeltiere. IV. Skeletsystem. D:
Paläontologisches.
Jahresber. Anat. Entwickl. (N.F.), x, Abt.
3, 145-187.
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abstracts of which are presented on the
succeeding pages.
— 1906 A
Skeletsystem. Paläontologisches.
Jahresber. Anat. Entwickl. (N.F.), xi, pt.
3, 149-185.
On pages 149-154 are listed titles of 137
papers, résumés of some of which are pre-
sented on the succeeding pages.
- Burden, Douglas** 1927 A
The quest for the dragon of
Komodo.
Nat. Hist., xxvii, 3-18, 20 figs.
- Burlet, H. M. de** 1913 A
Zur Entwicklungsgeschichte des
Walschädels. I: Über das Primordial-
cranium eines Embryo von *Phocæna*
communis.
Morphol. Jahrb., xlv, 523-556, pls. xv-
xvii, 24 text-figs.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xix, pt. 3, 46-49.
- 1913 B
Über einen rudimentären Wirbel-
körper an der Spitze des Dens epi-
strophei bei einem Embryo von *Brady-*
pous cuculli.
Morphol. Jahrb., xlv, 393-408, 12 figs.
The bibliography includes 40 titles.

- Burlet, H. M. de**—Continued 1913 C
 Zur Entwicklungsgeschichte des Walschädels. II: Das Primordialcranium eines Embryo von *Phocaena communis* von 92 mm.
 Morphol. Jahrb., XLVII, 645-676, 2 pls., 25 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), XIX, pt. 3, 46-49.
- 1914 A
 Zur Entwicklungsgeschichte des Walschädels. III: Das Primordialcranium eines Embryo von *Balaenoptera rostrata* (105 mm.).
 Morphol. Jahrb., XLIX, 119-178, pls. i-vii, 33 text-figs.
 For No. I, see vol. XLV; for No. 2, vol. XLVII.
- 1914 B
 Zur Entwicklungsgeschichte des Walschädels. IV: Über das Primordialcranium eines Embryo von *Lagenorhynchus albirostris*.
 Morphol. Jahrb., XLIX, 393-406, 9 text-figs.
- 1916 A
 Zur Entwicklung des Walschädels. V: Zusammenfassung des über den Knorpelschädel der Wale Mitgeteilten.
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1872 RR
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1872 SS
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1900 A

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1901 A

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1902 A

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1902 B

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Bull. Soc. géol. France (4), II, 344.

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1902 C

Les relations des tapirs, des *Coryphodon* et des *Lophiodon*.

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1902 D

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C. R. Acad. Sci., Paris, CXXXIV, 1278-1281, 2 figs.

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1904 A

Sur les caractères et les affinités du genre *Chasmodon* Rütimeyer.

Bull. Soc. géol. France (4), IV, 569-587, pl. xvi, 1 text-fig.

1904 B

Études paléontologiques sur les *Lophiodon* du Minervois.

Arch. Mus. hist. nat. Lyon, IX, Mem. I, 1-49, pls. i-iv, 8 text-figs.

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1905 A

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1905 B

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C. R. Acad. Sci. Paris, CXLI, 22-23.

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1905 C

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C. R. Acad. Sci. Paris, CXLI, 702-705, 792.

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1906 A

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C. R. Acad. Sci. Paris, CXLI, 618-620.

1906 B

L'évolution des mammifères tertiaires; importance des migrations. Époque miocène.

C. R. Acad. Sci. Paris, CXLI, 1120-1123.

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1907 A

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1907 B

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1908 B

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C. R. Acad. Sci. Paris, CXLI, 158-162.

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- De Stefani, C.** 1921 A
Patologia di alcuni mammiferi pliocenici e postpliocenici della Toscana.
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Geology of the coastal plain of Texas west of Brazos River.
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Systematic position of several American Tertiary lagomorphs.
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- 1923 B
Notes on *Praotherium palatinum* Cope.
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- Dice, Lee Raymond—Continued** 1925 A
Rodents and lagomorphs of the Rancho La Brea deposits.
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Über osteologische Charakteristika der Strigiformes. Ein Beitrag zur Osteologie der Nachtraubvögel.
Inaugural-Dissertation, Bern. 8vo., 1-58 pages, 13 text-figs.
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- 1912 A
Elephas primigenius fraasi, eine schwäbische Mammutrasse.
Jahresh. Ver. Naturk. Württemb., LXVIII, 42-106, pls. i, ii, 26 text-figs.
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Sitz.-Ber. Ges. naturf. Freunde Berlin, 1919, 45-61, 5 figs.
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- Dilg, Carl** 1909 A
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Description of the Redding quadrangle.
Folio U. S. Geol. Surv., cxxxviii, 1-14, with maps.
- 1911 A
The auriferous gravels of the Trinity River basin, California.
Bull. U. S. Geol. Surv., cccclxx, 11-29, maps and sections.
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Zur Morphologie und Anatomie der Halsanhänge beim Menschen und den Ungulaten.
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Études sur les variétés de la colonne vertébrale.
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Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 100-101.
- 1912 A
Beiträge zur vergleichenden Anatomie und Ontogenie der Nase der Primaten. I: Nase bei einigen catarrhinen Affen, Säugern und dem Menschen.
Morphol. Jahrb., xlv, 409-463, 64 text-figs.
In the bibliography are 33 titles.
- 1913 A
Beiträge zur vergleichenden Anatomie und Embryologie der Nase der Primaten. II: Die Regio ethmoidalis des Primordialeraniums mit Deckknochen von einigen platyrrhinen Affen.
Morphol. Jahrb., xlv, 557-726, pls. xviii-xx, 113 text-figs.
- Freudenberg, Wilhelm** 1910 A
Die Säugetierfauna des Pliocäns und Postpliocäns von Mexiko. I: Carnivoren.
Geol. Pal. Abh. Jena, ix (xiii), Heft 3, pls. i-ix, text-figs. 1-5; in complete volume, 193-231, pls. xx-xxviii.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, 1, Ref., 311-312; Geol. Centralbl., xv, 721-722; Rev. erit. Paléozool., xv, 79; Sci. Progress, v, 667.
- 1911 A
Abstract of J. C. Merriam: Skull and dentition of an extinct cat closely allied to *Felis atrox* Leidy (Merriam, J. C., 1909 A).
Neues Jahrb. Min. Geol. Pal., 1911, 1, Ref., 134.
- 1913 A
Elephas primigenius fraasi Dietrich und die schwäbische Hochterrasse.
Centralbl. Min. Geol. Pal., 1913, 475-480; 646-652.
- 1914 A
A. Lotichius: Der Säbeltiger.
Neues Jahrb. Min. Geol. Pal., 1914, 1, Ref., 501.
Review of paper by Lotichius (Lotichius, A., 1914 A.).
- 1921 A
Geologie von Mexico.
8vo., i-viii+1-232 pages, 2 pls., 28 text-figs., 1921, Berlin, Borntraeger.
- Freudenberg, Wilhelm**—Cont'd 1922 A
Die Säugetierfauna des Pliocäns und Postpliocäns von Mexiko. II Teil: Mastodonten und Elephanten.
Geol. Pal. Abh. Jena, xiv (xviii), Heft 3, 1-76, pls. i-ix, text-figs. 1-23.
The literature is cited in foot-notes.
- 1923 A
Plastische Rekonstruktion des Urmenschen von Heidelberg (*Homo heidelbergensis*).
Verh. Anat. Ges., xxxii, 122-129, 2 figs.
Followed by a discussion by Fischer, Stieve, Bluntzli, Weidenreich, Grosser, Lubosch, Aichel, Maurer.
- 1926 A
Über *Elephas trogontherii* Pohl.
Palaeont. Zeitschr., viii, 68-69.
- Freund, L.** 1902 A
Bemerkungen über den Bau der Mittelhand.
Verh. Ges. deutsch. Naturf., 74ste Vers., 2ter. Teil., 1stes Heft, 162-164.
- 1904 A
Die Osteologie der Halicorefflosse.
Zeitschr. wiss. Zool., lxxvii, 363-397, pls. xiv, xv, 4 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 116-117.
- 1905 A
Das Sternum von *Halicore dugong*.
Zeitschr. Morphol. Anthropol., viii, 425-438, pls. xxviii, xxix, 1 text-fig.
- 1906 A
Die Hyperdaktylie.
Zeitschr. Tiermedizin, x, 110-117.
- 1908 A
Beiträge zur Entwicklungsgeschichte des Schädels von *Halicore dugong* Erxl.
Semon's "Zool. Forschungsreisen," iv, Lfg. 4 (Denk. med. Ges. Jena, vii), 557-626, 50 text-figs.
Appended is a bibliography of 21 titles.
- 1911 A
Zur Morphologie des harten Gaumens der Säugetiere.
Zeitschr. Morphol. Anthropol., xiii, 377-394, pl. xiv, 4 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 37.
- 1912 A
Zur Morphologie des harten Gaumens der Säugetiere.
Verh. internat. Zool.-Kongr., Graz, viii, 1910, 557-558, 1 text-fig.
- 1913 A
Neues über Sirenen.
Naturwiss. Berlin, i, 253-261, 2 figs.

- Freund, L.**—Continued 1914 A
 Beiträge zur Entwicklungsge-
 schichte der Sirenen.
 Morphol. Jahrb., XLIX, 353-388, pl. xvi,
 22 text-figs.
- 1914 B
 Neues über die Skelettentwicklung
 bei den Sirenen.
 Verh. Ges. deutsch. Naturf., LXXXV, Wien,
 1913, Th. 2, Häfte 1, 706.
- Freund, Paul** 1892 A
 Beiträge zur Entwicklungsge-
 schichte der Zahnanlagen bei Nage-
 thieren.
 Arch. mikr. Anat. Bonn., XXXIX, 525-555,
 pls. xxii, xxiii.
- 1893 A
 Contributions to the development of
 the tooth-rudiments in rodents.
 Ann. Mag. Nat. Hist. (6), XI, 301-327.
 Citation of the literature in foot-notes.
- Frey, Hugo** 1911 A
 Vergleichend-anatomische Studien
 über die Hammer-Amboss-Verbindung
 der Säuger.
 Anat. Hefte Arb., XLIV, 363-437, pls. xiv
 xxiv.
 There is a bibliography of 26 titles.
 Abstract in Jahresber. Anat. Entwickl.
 (N.F.), xv, pt. 3, 38-40.
- Frick, Childs** 1918 A
 Fauna of the Bautista badlands.
 Bull. Geol. Soc. Amer., XXIX, 163 (ab-
 stract).
- 1921 A
 Extinct vertebrate faunas of the
 badlands of Bautista Creek and San
 Timoteo Cañon, southern California.
 Bull. Dept. Geol. Univ. Calif., XII, 277-
 424, pls. xliii-1, 165 text-figs.
 Abstracts in Rev. crit. Paléozool., XXVI,
 134; Geol. Zentralbl., XXIX, 443-444.
- 1926 A
 The Hemicyoninae and an American
 Tertiary bear.
 Bull. Amer. Mus. Nat. Hist., LVI, 1-119,
 frontispiece, 3 tables, 62 text-figs.
 Throughout this paper are numerous cita-
 tions of the literature.
- 1926 B
 Tooth sequence in certain trilopho-
 dont tetrabelodont mastodons and
Trilophodon (Serridentinus) pojoaqu-
ensis, new species.
 Bull. Amer. Mus. Nat. Hist., LVI, 122-176,
 27 figs.
- 1926 C
 Prehistoric evidence.
 Nat. Hist., XXVI, 440-448, 3 figs.
- Friedmann, Emil** 1897 A
 Beiträge zur Zahnentwicklung der
 Knochenfische.
 Morphol. Arbeit., VII, 546-582, 16 text-figs.
 There is presented a bibliography of 32
 titles.
- Fries, B. Fr.** 1838 A
 Ichthyologische Beiträge zur skan-
 dinavischen Fauna. Das Geschlecht
Syngnathus.
 Arch. Naturges., IV, 1, 237-250, pl. vi.
- 1838 B
 Metamorphose, bemerkt bei der
 kleinen Meernadel (*Syngnathus lum-*
briciformis).
 Arch. Naturges., IV, 1, 251-256, pl. vi.
- Fries, C.** 1924 A
 Zur Phylogenie des Schildkröten-
 panzers.
 Zool. Anz., LXI, 277-280.
- Fritsch, A.** 1879 A
 Review of Gaudry's "Sur les rep-
 tiles des temps primaires" (Gaudry
 A., 1878 A).
 Neues Jahrb. Min. Geol. Pal., 1879, 720.
- 1889 B
 Abstract in Geol. Mag. (3), v, 523; (3),
 VIII, 375-378, 2 figs.
- 1895 A
 Abstract in Geol. Mag. (4), II, 40; (4),
 III, 83.
- Froriep, August** 1883 A
 Zur Entwicklungsgeschichte der
 Wirbelsäule, insbesondere des Atlas
 und Epistropheus und der Occipital-
 region. I: Beobachtung an Hühner-
 embryonen.
 Arch. Anat. Entwickl., 1883, 177-234, pls.
 vii-ix; text-figs. 1-8.
 There is a bibliography of 27 titles.
- 1886 A
 Zur Entwicklungsgeschichte der
 Wirbelsäule, insbesondere des Atlas
 und Epistropheus und der Occipital-
 region. II: Beobachtung an Säuger-
 thiere-embryonen.
 Arch. Anat. Entwickl., 1886, 69-150, pls.
 i-iii, 8 text-figs.
 The bibliography includes 19 titles.
- 1887 A
 Bemerkungen zur Frage nach der
 Wirbeltheorie des Kopfskelettes.
 Anat. Anz., II, 815-835.

- Froriep, August**—Continued 1902 A
Zur Entwicklungsgeschichte des
Wirbeltierkopfes.
Verh. Anat. Ges., xv, Bonn, 34-46, 5 text-
figs.
- 1905 A
Sur la genèse de la partie occipitale
du crâne.
C. R. Assoc. Anatomistes, vii, 156-157.
- 1905 B
Die occipitalen Urwirbel der Am-
nioten im Vergleich mit denen der
Selachier.
Verh. Anat. Ges., xix, Genf, 111-120, 4
text-figs.
- Frost, Frederick H.** 1927 A
Statistical identification as applied
to *Parapavo*.
Bull. Dept. Geol. Univ. Calif., xvii, 57-62.
- Frost, George Allan** 1913 A
The internal cranial elements and
foramina of *Dapedius granulatus*,
from a specimen recently found in the
Lias at Charmouth.
Quart. Jour. Geol. Soc., lxi, 219-222,
2 text-figs.
For review see Geol. Mag. (5), x, 234.
- 1925 A
A comparative study of the otoliths
of the neopterygian fishes.
Ann. Mag. Nat. Hist. (9), xv, 152-163,
553-561, pls. xi-xiii, xxix.
- 1926 A
A comparative study of the otoliths
of the neopterygian fishes (continued).
Orders Haplomi, Heteromi, Incomi,
Hypostomides, Salmopereæ, Synentog-
nathi, Microcyprini, Solenichthyes,
Anacanthini.
Ann. Mag. Nat. Hist. (9), xviii, 465-490,
pls. xx-xxii.
- 1927 A
A comparative study of the otoliths
of the neopterygian fishes (continued).
Orders Allotriognathi, Berycomorphi.
Ann. Mag. Nat. Hist. (9), xix, 439-445, pl.
viii.
- Fry, Edward** 1850 A
Remarks on the morphology of the
vertebrate skeleton.
Proc. Zool. Soc. Lond., xviii, 15-22.
- Fryd, Carlos** 1901 A
Die Otolithen der Fische in Bezug
auf ihre Bedeutung für Systematik
und Altersbestimmung.
Christ.-Albr.-Univ., Kiel. Inaug. Dissert.,
1-54, 16 text-figs.
- Fryxell, F. M.** 1926 A
A horn of the prong-horn antelope
(*Antilocapra americana*) found at
Moline, Illinois.
Jour. Mamm., vii, 333-334.
- Fuchs, Hugo** 1905 A
Spezielle Anatomie und Entwick-
lungsgeschichte des Menschen und der
Wirbeltiere. IV: Skeletsystem. A.
Kopfskelet.
Jahresber. Anat. Entwickl. (N.F.), x,
Abth. 3, 33-91.
Pages 33-39 are occupied by a bibliogra-
phy of the recent literature of the subject.
The remainder of the paper consists of ab-
stracts of the papers listed.
- 1905 B
Bemerkungen über die Herkunft
und Entwicklung der Gehörknöchel-
chen bei Kaninchen-Embryonen (nebst
Bemerkungen über die Entwicklung
des Knorpelskeletes der beiden ersten
Visceralbogen).
Arch. Anat. Entwickl., 1905, 1-178, pls. i-iv.
References to other authors in foot-notes.
- 1906 A
Untersuchungen über die Entwick-
lung der Gehörknöchelchen des Squa-
mosums und des Kiefergelenkes der
Säugertiere, nebst einigen vergleich-
end-anatomischen Betrachtungen über
Articulare, Quadratum und Gehör-
knöchelchen.
Arch. Anat. Physiol. Leipzig, Supplem.
Bd., 1906, 1-89, pls. i-vi, 4 text-figs.
For "Nachtrag" see Archiv, 1906, 117-118;
also Anat. Anz., xxviii, 317-318.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xii, pt. 3, 46-50.
- 1907 A
Über die morphologische Bedeutung
des Squamosums am Säugetierschädel.
Zeitschr. Morphol. Anthrop., x, 147-170,
pl. xi, 2 text-figs.
References are made to works of other
authors.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xii, pt. 3, 50-51.
- 1907 B
Untersuchungen über Ontogenie und
Phylogenie der Gaumenbildungen bei
den Wirbeltieren. I: Über den Gau-
men der Schildkröten und seine Ent-
wicklungsgeschichte.
Zeitschr. Morphol. Anthrop., x, 409-463,
pls. xx, xxi, 8 text-figs.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xiii, pt. 3, 49-51.

- Fuchs, Hugo—Continued** 1907 C
 Ueber die Entwicklung des Operculums der Urodelen und des Distalidiums ("Columella" auris) einiger Reptilien.
 Anat. Anz. Ergänzungsh., xxx, 8-34, pls. i, ii, 5 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 48.
- 1907 D
 Ueber das Hyobranchialskelett von *Emys lutaria* und seine Entwicklung.
 Anat. Anz., xxxi, 33-39, 5 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 48.
- 1908 A
 Ueber das Vorkommen selbständiger knöcherner Epiphysen bei Sauropsiden.
 Anat. Anz., xxxii, 352-360, 4 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 120.
- 1908 B
 Ueber einen Rest des Parasphenoids bei einem rezenten Säugetiere.
 Anat. Anz., xxxii, 584-590, 3 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 50.
- 1908 C
 Untersuchungen über Ontogenie und Phylogenie der Gaumenbildungen bei den Wirbeltieren. II: Über das Munddach der Rhynchocephalen, Saurier, Schlangen, Krokodile und Säuger und den Zusammenhang zwischen Mund- und Nasenhöhle bei diesen Tieren.
 Zeitschr. Morphol., Anthropol., xi, 153-248, pls. vi-viii, 23 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 47-50.
- 1909 A
 Ueber die morphologische Bedeutung der Sacralrippen.
 Anat. Anz., xxxiv, 349-356, 526, 2 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 104-108.
- 1909 B
 Betrachtungen über die Schläfengegend am Schädel der Quadrupeda.
 Anat. Anz., xxxv, 113-167, 25 text-figs.
- 1909 C
 Ueber die Entwicklung einiger Deckknochen (Vomer, Pterygoid, Maxillare) bei Säugetieren (und ihr Verhältnis zum Knorpelskelette).
 Anat. Anz. Ergänzungsh., xxxiv, 85-104, pl. i, 12 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 45-49.
- Fuchs, Hugo—Continued** 1909 D
 Beiträge zur Entwicklungsge-
 schichte und vergleichenden Anatomie des Brustschulterapparates der Wirbeltiere.
 Zeitschr. Morphol. Anthropol., ii, 141-226, pls. vi-ix, 4 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 166-168.
- 1910 A
 Ueber das Pterygoid, Palatinum und Parasphenoid der Quadrupeden, insbesondere der Reptilien und Säugetiere, nebst einigen Betrachtungen über die Beziehungen zwischen Nerven und Skeletteilen.
 Anat. Anz., xxxvi, 33-95, 45 text-figs.
 For a reply to this paper see Gaupp, E., 1910 B.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 40-41.
- 1910 B
 Bemerkungen über Monimostylie und Streptostylie. Einige berichtigende Bemerkungen zu der Versluys'schen Arbeit: "Streptostylie bei Dinosauriern, etc."
 Anat. Anz., xxxvii, 250-256.
 See Versluys, 1911 A, for rejoinder.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 41.
- 1910 C
 Ueber die Homologie der Paukenhöhlen und das Verhältnis zwischen Nervenverlauf und Skelett. Erwiderung auf die Arbeit des Herrn Dr. O. Bender: "Nochmals die Homologie der Paukenhöhlen" (Anat. Anz., Bd. 37, 1910, No. 4/5).
 Anat. Anz., xxxvii, 473-496.
- 1911 A
 Ueber das Septomaxillare eines rezenten Säugetieres (*Dasypus*), nebst einigen vergleichend-anatomischen Bemerkungen über das Septomaxillare und Praemaxillare der Amnioten überhaupt.
 Anat. Anz., xxxviii, 33-55, 16 text-figs.
 For a review see Naturw. Wochenschrift, xxvi, 1911, 433; Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 40; Nature, lxxxvii, 197.

Fuchs, Hugo—Continued

1911 B

Über die Beziehungen zwischen den Theromorphen Cope's bezw. den Therapsiden Broom's und den Säugetieren, erörtert auf Grund der Schädelverhältnisse (nebst einem weiteren Beitrag zur Frage der Homologie des Kiefergelenkes und der morphologischen Bedeutung des Squamosums).

Zeitschr. Morphol. Anthropol., xiv, 367-438, 65 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 442; Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 43.

1911 C

Bemerkungen über das Munddach der Amnioten, insbesondere der Schildkröten und Schlangen.

Anat. Anz., xxxviii, 609-637, 52 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 41-42.

1911 D

Über correlative Beziehungen zwischen Zungen und Gaumenentwicklung der Säugerembryonen, nebst Betrachtungen über Erscheinungsformen progressiver und regressiver Entwicklung.

Zeitschr. Morphol., Anthropol., xiii, 97-130, 30 text-figs.

1912 A

Ueber die Struktur des Reptiliengebisses und die Beziehung desselben zum Säugergebiss.

Anat. Anz. Ergänzungsh., xli, 68.

1912 B

Ueber einige Ergebnisse meiner Untersuchungen über die Entwicklung des Kopfskelettes von *Chelone imbricata* (Material Voeltzkow).

Anat. Anz. Ergänzungsh., xli, 81-106, 18 text-figs.

Followed by a list of 24 titles of papers pertaining to the subject discussed.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 52-55.

1912 C

Bemerkungen über das Gebiss des *Erinaceus europæus*, gegründet auf das Fehlen eines unteren Incisivus.

Zeitschr. Morphol., Anthropol., xiv, 507-526, 4 text-figs.

Fuchs, Hugo—Continued

1912 D

Über Knorpelbildung in Deckknochen, nebst Untersuchungen und Betrachtungen über Gehörknöchelchen, Kiefer und Kiefergelenk der Wirbeltiere.

Arch. Anat. Entwickl., 1-256, pls. i-iv, 57 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 49-59.

1913 A

Zur Richtigstellung. Erwiderung an Herrn Dr. O. Bender in München, in Sachen der Columella und Bicolumella auris.

Anat. Anz., xliii, 59-64, 284-286.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 61.

1913 B

Zur Antwort O. Benders.

Anat. Anz., xliiv, 301-303.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 61.

1914 A

Zur Entwicklungsgeschichte der Zahnform und deren Anwendung auf das Primatengebiss.

Deutsche Monatsschr. Zahnheilk., xxxii, 24-44.

1915 A

Structure and development of the skull of *Chelone imbricata*.

4to., Stuttgart, 325 pages. In German (Not seen).

1920 A

Über die Verknöcherung des Innenskeletes am Schädel der Seeschildkröten, nebst Bemerkungen über das geschlossene Schläfendach.

Anat. Anz., lii, 353-389, 449-479, 24 figs.

1920 B

Über die Verknöcherung der Innenskeletts am Schädel der Seeschildkröten, nebst Bemerkungen über das geschlossene Schläfendach (Fortsetzung).

Anat. Anz., liii, 1-36; 353-371.

The bibliography presents 56 titles.

1920 C

Die Homologie der Wirbeltiere.

Verh. Anat. Ges., xxix, 92-94 (Discussion).

- Fuchs, Hugo**—Continued 1922 A
 Beiträge zur Entwicklungsgeschichte und vergleichenden Anatomie des Brustschulterapparates der Wirbeltiere; Schultergürtel der Anura
 Zeitschr. Morphol. Anthropol., xxii, 283-328, pls. i, ii, 3 text-figs.
 The bibliography is found on pages 326-327.
- 1926 A
 Beiträge zur Entwicklungsgeschichte und vergleichende Anatomie des Brust-Schultergürtels der Wirbeltiere.
 Verh. Anat. Ges., xxxv, 119-138, 6 figs.
 In the bibliography are 14 titles.
- 1926 B
 Beiträge zur Entwicklungsgeschichte und vergleichenden Anatomie des Brustschultergürtels der Wirbeltiere. Fünfte Mitteilung.
 Anat. Anz., lxi, 1-34, 4 figs.
- Fuchs, Theodor** 1900 A
 Über die Natur der Edestiden, mit besonderer Rücksicht auf die Gattung *Helicoprion*.
 Sitz.-Ber. Akad. Wiss. Wien., cix, Abth. i, 5-9, 1 plate, 3 text-figs.
 Abstracts in Geol. Centralbl., ii, 315; Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref., 132; Rev. erit. Paléozool., v, 69.
- 1901 A
 Ueber *Dæmonhelix krameri* Ammon.
 Verhandl. geol. Reichsanst., 1901, 171-172.
- Fürbringer, Karl** 1903 A
 Beiträge zur Kenntnis des Visceralskelets der Selachier.
 Morphol. Jahrb., xxxi, 360-445, pls. xvi-xviii.
 Appended is a bibliography of 65 titles.
- 1904 A
 Notiz über einige Beobachtungen am Dipnoerkopf.
 Anat. Anz., xxiv, 405-408.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 58-59.
- 1904 B
 Beiträge zur Morphologie des Skelettes der Dipnoer, nebst Bemerkungen über Pleuracanthiden, Holocephalen, und Squaliden.
 Denk. med.-naturw. Ges. Jena, iv, 423-510, pls. xxxvii-xli, 38 text-figs. (=Semon's "Zool. Forschungsr. in Austral.," vol. I, 423-510).
 The bibliography comprises 85 titles.
 Abstract in Jahresb. Anat., Entwickl. (N.F.), x, Abt. 3, 97-98.
- Fürbringer, Max** 1902 A
 Morphologische Streitfragen. II: Rabl's Methode und Behandlung der Extremitätenfrage.
 Morphol. Jahrb., xxx, 144-274.
 Appended is a list of 297 titles of papers on the subject treated.
- 1902 B
 Zur vergleichenden Anatomie des Brustschulterapparates und der Schultermuskeln.
 Jena. Zeitschr. Naturwiss., xxxvi, 289-736q, pls. xviii-xxii, text-figs. 180-262.
 This paper deals principally with the anatomy of the muscles and nerves of birds. On pages 597-599 are cited treatises which deal more especially with the osteology of birds.
- 1903 A
 Notiz über oberflächliche Knorpel-elemente im Kiemenskelet der Rochen (Extraseptalia), zugleich nach von J. Ed. Stumpff gemachten Beobachtungen.
 Morphol. Jahrb., xxxi, 623-627, 4 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 59.
- 1904 A
 Zur Frage der Abstammung der Säugetiere.
 Denk. med.-naturw. Ges. Jena, xi, Festschr. 70sten. Geburtstag. Ernst Haeckel, 571-604.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 59-61.
- 1905 A
 Die Homologie des Unterkiefers in der Wirbeltierreihe.
 Anat. Anz. Ergänzungsh., xxvii, 17.
 Brief remarks in discussion.
- Fuller, M. L.** 1912 A
 The New Madrid earthquake.
 Bull. U. S. Geol. Surv., cccxciv, 1-119, pls. i-x, 18 text-figs.
- , and F. G. Clapp 1912 A
 The underground waters of southwestern Ohio.
 U. S. Geol. Surv. Water-suppl. Pap. 259, 1-228, pls. and figs.
- Fulton, A. R.** 1883 A
Elephas americanus.
 Howe's Annals of Iowa, ii, 102-105.
 Describes a tooth of a mastodon.

- Fulton, T. Wemyss** 1906 A
Observations on the otoliths of some teleostean fishes.
Rep. Fish. Board Scotland, xxiv, pt. iii, 48-82, pls. i-v.
References are made to 5 papers which treat the subject.
- Funccius, Theodor** 1909 A
I: Der Prothorax der Vögel und Säuger.
Morphol. Jahrb., xxxix, 370-445, pls. xxi-xxiii, 20 text-figs.
This paper is preceded by an introduction by Dr. A. Fleischmann and followed by a bibliography of 41 titles.
- Furlong, E. L.** 1904 A
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- 1812 A
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- 1822 A
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- 1822 B
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- 1824 A
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- 1824 B
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 ayant été considérées comme les parties
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 ces osselets aux pièces de l'opercule.
 Mém. Mus. hist. nat. Paris, xi, 143-160,
 258-260.
- 1824 C
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 usages des pierres qu'on trouve dans
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1824 D

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Mém. Mus. hist. nat. Paris, XI, 420-444, pl. xxi.

1824 E

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1824 F

Considérations et rapports nouveaux d'anatomie comparée concernant les mammifères à sabots.

Ann. Sci. nat., I, 80-83.

1824 G

Observations sur les prétendus osselets de l'ouïe trouvés par Ernest-Henri Weber.

Ann. Sci. nat., I, 436-440.

1824 H

Composition de la tête osseuse de l'homme et des animaux.

Ann. Sci. nat., III, 173-192, 245-299 pl. xvi.

1825 A

Sur quelques objections et remarques concernant l'aile operculaire ou auriculaire des poissons.

Mém. Mus. hist. nat. Paris, XII, 13-17.

1825 B

Sur leurs affinités naturelles, desquelles résulte la nécessité d'une autre distribution générique, *Gavialis*, *Teleosaurus*, et *Steneosaurus*; etc.

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Nouv. Ann. Mus. hist. nat. Paris, I, 320-356, pl. xiii.

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Nouv. Ann. Mus. hist. nat. Paris, IV, 97-120, 1 pl.

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1912 A

The Permian Amphibia and Reptilia of North America.

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Geol. Mag. (6), I, 480.

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1852 A

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1853 C

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Ann. Sci. nat. (3), XX, 229-237, pl. xii.

1855 B

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Ann. Sci. Nat. (4) III, 330-338, pl. v.

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1856 A

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Ann. Sci. nat. (4), VI, 5-16.

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Ann. Sci. nat. (4), XV, 142-148.

1868 A

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- 1873 B
 Mémoire sur plusieurs espèces de mammifères fossiles propres à l'Amérique méridionale.
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- 1878 A
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- Gessner, Ignaz** 1921 A
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- 1900 B
 Sull' origine dell molari dei mammiferi.
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- Gibbes, Charles Drayton** 1882 A
 Prehistoric foot-prints in the sandstone quarry of the Nevada State Prison.
 Proc. Calif. Acad. Sci., v, 1-8, 4 views of the prison yard and 3 sheets showing footprints.
- 1882 B
 Fossil jaw of mammoth.
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 Abstract in Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 67-69.
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- 1902 A
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 Amer. Mus. Jour., ii, 24-25.
- 1903 A
 On two species of *Platygonus* from the Pliocene of Texas.
 Bull. Amer. Mus. Nat. Hist., xix, 477-481, 5 text-figs.
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- 1903 B
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 Bull. Amer. Mus. Nat. Hist., xix, 465-476.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref., 468-469; Geol. Centralbl., v, 461; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 184; Rev. crit. Paléozool., ix, 5.
- 1903 C
 The fresh-water tertiary of north-western Texas. American Museum expeditions of 1899-1901.
 Bull. Amer. Mus. Nat. Hist. xix, 617-636, pls. lii-lviii, 4 text-figs.
- 1904 A
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- 1904 B
 Proper generic names of Miocene horses.
 Bull. Amer. Mus. Nat. Hist., xx, 191-194.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref. 468; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 182; Geol. Centralbl., vii, 424; Rev. crit. Paléozool., ix, 5.

- Gidley, J. W.—Continued** 1904 C
Remarks on Pliocene fossils found in California.
Bull. Dept. Geol. Univ. Calif., iv, 57, 72, 75.
- 1906 A
A fossil raccoon from a California Pleistocene cave deposit.
Proc. U. S. Nat. Mus., xxix, 553-554, pl. xii.
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- 1906 B
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Proc. U. S. Nat. Mus., xxx, 165-167, figs. 1-3. Describes *Liops zuniensis*.
Brief abstracts in Geol. Centralbl. xi, 107; Sci. Progress, i, 452.
- 1906 C
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- 1906 D
A new genus of horse from the Mascall beds, with notes on a small collection of equine teeth in the University of California.
Bull. Amer. Mus. Nat. Hist., xxii, 385-388, 1 text-fig.
Abstract in Geol. Centralbl., xi, 473.
- 1906 E
Evidence bearing on tooth-cusp development, based on a study of the Mesozoic mammals.
Science (n.s.), xxiii, 665-666.
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- 1906 F
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Proc. Wash. Acad. Sci., viii, 91-106, pls. iv, v, 2 text-figs.
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- 1907 A
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Bull. Amer. Mus. Nat. Hist., xxiii, 865-934.
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- Gidley, J. W.—Continued** 1907 B
A new horned rodent from the Miocene of Kansas.
Proc. U. S. Nat. Mus., xxxii, 627-636, pls. lviii-lxv, 1 text-fig.
Abstracts in Geol. Centralbl., xi, 379; Sci. Progress, ii, 508; Rev. crit. Paléozool., xii, 1; Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 172.
- 1908 A
Descriptions of two new species of Pleistocene ruminants of the genera *Ovibos* and *Bootherium*, with notes on the latter genus.
Proc. U. S. Nat. Mus., xxxiv, 681-684, pls. lvii-lix.
Abstracts in Rev. crit. Paléozool., 13, 74, Amer. Jour. Sci. (4) xxviii, 412; Geol. Centralbl., xii, 596; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 162; Sci. Progress, iii, 454.
- 1908 B
Notes on a collection of fossil mammals from Virgin Valley, Nevada.
Bull. Dept. Geol., Univ. Calif., v, 235-242.
Abstract in Geol. Centralbl., xiii, 203.
- 1909 A
Notes on the fossil mammalian genus *Ptilodus*, with descriptions of new species.
Proc. U. S. Nat. Mus., xxxvi, 611-626, pl. lxx, 9 text-figs.
Abstracts in Geol. Centralbl., xiv, 488; Amer. Jour. Sci. (4), xxviii, 411-412. Nature, vol. LXXXI, 204; Sci. Progress, iv, 649, 664, 1 pl.
- 1909 B
Remarks on a restoration of *Basilosaurus cetoides*.
Science (n.s.), xxxi, 519.
- 1911 A
[Collection of bones and teeth made at Brunswick, Ga.]
Bull. Geol. Survey Georgia, xxvi, 436.
- 1912 A
The lagomorphs an independent order.
Science (n.s.), xxxvi, 285-286.
Abstract in Geol. Centralbl., xx, 702.
- 1912 B
Symposium on ten years progress in vertebrate paleontology. Perissodactyla.
Bull. Geol. Soc. Amer., xxiii, 179-181.
For the other articles of this symposium see the 1912 papers of Matthew, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Osborn, Williston, and Sinclair.

- Gidley, J. W.—Continued** 1912 C
Paleontological evidence bearing on the problem of the origin of the American aborigines.
Amer. Anthropol., xiv, 18-23.
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- 1913 A
A recently mounted zeuglodon skeleton in the United States National Museum.
Proc. U. S. Nat. Mus., XLIV, 649-654, pls. lxxxi, lxxxii, 3 text-figs.
Abstracts in Geol. Centralbl., xx, 146; Neues Jahrb. Min. Geol. Pal., 1915, I, Ref., 134; Sci. Progress, VIII, 637; Nature, xci, 355.
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- 1913 B
Preliminary report on a recently discovered Pleistocene cave deposit near Cumberland, Maryland.
Proc. U. S. Nat. Mus., XLVI, 93-102, 8 text-figs.
Abstracts in Geol. Centralbl., xx, 703-704; Nature, London, xcv, 35.
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- 1913 C
Some new American pyenodont fishes.
Proc. U. S. Nat. Mus., XLVI, 445-449, 6 text-figs.
Abstract in Rev. crit. Paléozool., XVIII, 58.
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- 1913 D
An extinct American eland.
Smithson. Misc. Coll., LX, No. 27, 1-3, pl. i.
Abstracts in Geol. Centralbl., XIX, 525; Sci. Progress, VIII, 631; Nature, xci, 595.
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- 1913 E
Notice of the occurrence of a Pleistocene camel north of the Arctic Circle.
Smithson. Misc. Coll., LX, No. 26, 1-2.
Abstracts in Sci. Progress, VIII, 633; Nature, xci, 595.
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- 1913 F
Notes on the relative ages of the beds at Archer, at Mixon's, and at Ocala, Fla., and their correlation with deposits of the western plains region.
U. S. Geol. Surv. Water-supp. Pap., CCIX, 142-143.
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- 1913 G
A newly discovered cave deposit near Cumberland, Maryland.
Smithson. Misc. Coll., LX, No. 30, 49-50, 1 fig.
Abstract in Nature, xciv, 468.
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- 1914 A
Remarks on *Ptilodus*.
Bull. Geol. Soc. Amer., xxv, 141.
- Gidley, J. W.—Continued** 1914 B
Further exploration of the Cumberland Pleistocene cave deposit.
Smithson. Misc. Coll., LXIII, No. 8, 16-18, figs. 18, 19.
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- 1915 A
An extinct marsupial from the Fort Union, with notes on the Myrmecobidæ and other families of this group.
Proc. U. S. Nat. Mus., XLVIII, 359-402, pl. xxiii.
Reviewed in Nature, London, xcv, 97; Rev. crit. Paléozool., xx, 39; Neues Jahrb. Min. Geol. Pal., 1917, I, 107; Geol. Mag. (6), II, 430.
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- 1915 B
Notes on the possible origin of the bears.
Jour. Wash. Acad. Sci., v, 333-334.
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- 1915 C
Fossil collecting at the Cumberland cave deposit.
Smithson. Misc. Coll., LXV, No. 6, 12-15, figs. 13, 14.
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- 1915 D
Report on fossils found in phosphate mines in Florida.
Bull. U. S. Geol. Surv., DCIV, 19, 20, 21, 68. (Matson, G. C., 1916 A.)
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- 1915 E
Report on fossils found in Cannonball division of the Lance formation, Montana.
Jour. Geol., XXIII, 538-539.
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- 1916 A
The Indiana mastodon.
Smithson. Misc. Coll., LXVI, No. 3, 28-29, 1 fig.
Reported mastodon found at Winamac, Ind.
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- 1917 A
Notice of a new Paleocene mammal, a possible relative of the titanotheres.
Proc. U. S. Nat. Mus., LII, 431-435, pl. xxxvi, 1 text-fig.
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- 1917 B
Report on Wasatch fossils.
U. S. Geol. Surv. Profess. Pap., CVIII, 59. Forms part of Wegemann, C. H., 1917 A.
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- 1917 C
Report on fossils found in Manhattan district, Nevada.
Bull. U. S. Geol. Surv., 640-J, 182.
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- 1918 A
Brief report on vertebrate paleontology in U. S. National Museum for 1917.
Rep. U. S. Nat. Mus., 1917 (1918), 59-60.

- Gidley, J. W.—Continued 1918 B
[On Wasatch fossils of the Powder River basin, Wyoming.]
U. S. Geol. Surv. Profess. Paper., cviii, 59.
- 1918 C
Identification of mammalian fossils from northeastern Montana.
U. S. Geol. Surv. Profess. Paper., cviii, 180-182.
- 1919 A
Significance of divergence of the first digit in the primitive mammalian foot.
Jour. Wash. Acad. Sci., ix, 273-280.
Abstract in Sci. Progress, xiv, 242.
- 1919 B
New species of clanodonts from the Fort Union (Basal Eocene) of Montana.
Bull. Amer. Mus. Nat. Hist., xli, 541-555, pl. xxviii.
Abstract in Rev. crit. Paléozool., xxiv, 142.
- 1919 C
[Notes in Peterson, O. A., 1919 A.]
Ann. Carnegie Mus., xxii, 61-62, 63.
- 1920 A
Pleistocene peccaries from the Cumberland cave deposit.
Proc. U. S. Nat. Mus., lvii, 651-678, pls. liv, lv, 13 text-figs.
Abstracts in Rev. Geol. et Sci. con., iv, 1923, 91-92; Neues Jahrb. Min. Geol. Pal., 1923, i, 318.
Review in Rev. crit. Paléozool., xxvii, 10.
- 1920 B
A Pleistocene cave deposit in western Maryland.
Rep. Smithson. Instn. for 1918, 281-287, pls. i-vi.
Abstracts in Geol. Zentralbl., xxvii, 362; xxix, 124.
- 1922 A
Review of W. K. Gregory's "The origin and evolution of the human dentition."
Jour. Mamm., iii, 268-269.
- 1922 B
Preliminary report on fossil vertebrates of the San Pedro Valley, Arizona, with descriptions of new species of Rodentia and Lagomorpha.
U. S. Geol. Surv. Profess. Paper, cxxxi, 119-130, pls. xxxiv, xxxv.
Abstracts in Geol. Zentralbl., xxx, 253; xxxi, 218.
- Gidley, J. W.—Continued 1923 A
Paleocene primates of the Fort Union, with discussion of relationships of Eocene primates.
Proc. U. S. Nat. Mus., lxi, art. 1, 1-38, pls. i-v, 4 text-figs.
There is a bibliography of 46 titles.
Review in Rev. crit. Paléozool., xxviii, 1924, 21.
- 1923 B
Report on fossils found near Ligurta, Arizona.
Bull. U. S. Geol. Surv., dcccxxx, 31-32.
- 1923 C
Observations on the Miocene species *Ursus primævus* Gaillard.
Jour. Mamm., iv, 240-243, pl. xxvii.
- 1923 D
Report on fossil bones.
U. S. Geol. Surv. Water Supply Pap., cdxcviii, 75.
- 1924 A
Report on vertebrate fossils found at Manhattan Gulch, Nevada.
Bull. U. S. Geol. Surv., dcccxxiii, 69-70.
- 1924 B
Report on fossils found in "Tiffany" zone, Colorado.
U. S. Geol. Surv. Profess. Paper., cxxxiv, 47.
- 1925 A
Prehistoric remains in Florida.
Science (n.s.), lxii, Aug. 28, Suppl., p. x.
- 1926 A
Fossil Proboscidea and Edentata of the San Pedro Valley, Arizona.
U. S. Geol. Surv. Profess. Pap., cxl, 83-95, pls. xxxii-xliv.
- 1926 B
Fossil man associated with the mammoth in Florida.
Jour. Wash. Acad. Sci., xvi, 310.
- 1926 C
Descriptions of fossil vertebrates from the shores of Lake Cochise, Arizona.
Amer. Jour. Sci. (5), xi, 481-485.
A part of Bryan and Gidley, 1926 A.
- 1926 D
Fossil man in Florida.
Bull. Geol. Soc. Amer. xxxvii, 239-240 (abstract).
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- 1916 B
Mode of progression of *Ceratosaurs*.
Scient. Amer. Suppl., No. 2098, 187.
- 1916 C
Description of two new species of fossil turtles, from the Lance formation of Wyoming.
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 A new restoration of *Triceratops*, with notes on the osteology of the genus.
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- 1919 E
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 Science (n.s.), L, 394-395.
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 Reptilian faunas of the Torrejon, Puereco, and underlying Upper Cretaceous formations of San Juan County, New Mexico.
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 Abstract in Nature, cviii, 482.
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 Bull. U. S. Nat. Mus., cx, 1-154, 36 pls., 78 text-figs.
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 Abstracts in Geol. Zentralbl., xxvii, 363; xxviii, 345; Nature, xcvi, 386.
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 Scient. Amer. Monthly, iii, 7-8, 3 figs.
 Abstract in Rev. crit. Paléozool., xxvii, 210.
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 An extinct sea-lizard from western Kansas.
 Scient. Amer., cxxiv, 273, 280, 3 figs.
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Fossil footprints of Texas.
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Science (n.s.), LIV, 274.
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- 1921 E
The fauna of the Arundel formation of Maryland.
Proc. U. S. Nat. Mus., LIX, 581-594, pls. cx-cxiv.
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- 1921 F
Remarks on some additions to the fossil vertebrate collection in the National Museum.
Jour. Wash. Acad. Sci., II, 66.
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- 1922 C
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- 1922 D
A new description of *Saniwa ensidens* Leidy, an extinct varanid lizard from Wyoming.
Proc. U. S. Nat. Mus., LX, art. XXIII, 1-28, pls. i-iii, 22 text-figs.
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- 1922 E
Note on dinosaur tracks in Texas.
Jour. Geol. xxx, 360.
- Gilmore, C. W.—Continued 1923 A
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Proc. U. S. Nat. Mus., LXII, art. 5, 1-8, pls. 1-5, 7 text-figs. Issued Feb. 6, 1923.
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- 1923 B
A new species of *Corythosaurus*, with notes on other Belly River Dinosauria.
Canad. Field-Naturalist, xxxvii, 46-52.
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- 1923 C
Giant reptile taken to the capital.
Science (n.s.), LVIII, XII (Sept. 7).
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Trans. Roy. Soc. Canada (3), xvii, sec. iv, 1-10, pls. i-v.
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A new species of hadrosaurian dinosaur from the Edmonton formation (Cretaceous) of Alberta.
Can. Geol. Surv. Dept. Mines, Bull. xxxviii (Geol. ser. XLIII), 13-26, pls. ii-v; text-figs. 6, 7.
- 1924 D
Report on a collection of vertebrates from Wood Mountain, southern Saskatchewan.
Can. Geol. Surv. Dept. Mines, Bull. xxxviii (Geol. ser. XLIII), 27-28.
- 1924 E
On the genus *Stephanosaurus*, with a description of the type specimen of *Lambeosaurus lambei* Parks.
Can. Geol. Surv. Dept. Mines, Bull. xxxviii, 29-48, pls. vi-x, text-figs. 8-12.

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Can. Geol. Surv. Dept. Mines, Bull. xxxviii, 49-64, pls. xi, xii, text-figs. 13-17.
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On *Troodon validus*; an orthopodous dinosaur from the Belly River Cretaceous of Alberta, Canada.
Bull. Univ. Alberta, Dept. Geol., i, 1-43, pls. i-xv, 3 text-figs.
Note on in Amer. Jour. Sci. (5), vii, 510.
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- 1924 K
Collecting fossil footprints in Virginia.
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Footprints in the rocks of ages.
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- 1926 F
Ceratosaurus, a flesh-eating dinosaur.
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- 1926 G
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- 1926 H
Brachyceratops, the smallest American horned dinosaur.
Nature Mag., viii, 163, 1 fig.
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Thescelosaurus; a bird-footed dinosaur.
Nature Mag., viii, 280, 1 fig.
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Identification of fossils from Lance formation, Wyoming.
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On a nearly complete lizard skull from the Oligocene of Nebraska.
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- 1926 L
Description of mosasaurs from the Ripley formation, Tennessee.
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- 1926 M
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- 1927 A
Trachodon, the duck-billed dinosaur.
Nature Mag., ix, 35, fig.
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Ossified tendons found in dinosaurs.
Ann. Med. Hist., ix, 94-97, figs. 1, 2.
- 1927 C
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Grand Canyon, Arizona.
Smithson. Misc. Coll., LXXVIII, art. 7, 45-
48, figs. 52, 53.
- 1927 D
Fossil footprints from the Grand
Canyon: second contribution.
Smithson. Misc. Coll., LX, art. 3, 1-78,
21 pls., 37 text-figs.
The bibliography presents 31 titles.
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On fossil turtles from the Pleisto-
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Fossil footprints in the Grand Can-
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The fossil lizards of North America.
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Fossil footprints from the Grand
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Smithson. Contrib. Knowl., iii, art. 3,
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26 and illustrated in plate iii.
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On the genus *Cottus* auct.
Proc. Bost. Soc. Nat. Hist., iii, 183-190.
- 1852 A
Révision du genre *Cottus* des au-
teurs.
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Nat. Hist., xxvi, 257-259.
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Bemerkungen zu: A. Fleischmann,
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Revision of the wood rats of the genus *Neotoma*.
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The rice rats of North America (Genus *Oryzomys*).
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Proc. Zool. Soc. Lond., 1910, 540-570, pls. xlii-xlvi.
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Note on a three-toed cow.
Jour. Anat. Physiol. Lond., II, 109-113.
- Goodrich, Edwin S.** 1901 A
On the pelvic girdle and fin of *Eusthenopteron*.
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Abstract in Jour. Roy. Micr. Sci., 1904, 519-520.
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Notes on the development, structure, and origin of the median and paired fins of fish.
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- 1910 A
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- 1927 C
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- 1927 D
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- 1905 A
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- Grevé, Carl**—Continued 1911 A
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- Grieve, Symington** 1883 A
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 The mountain sheep and its range.
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 An account of the expedition undertaken by Prof. O. C. Marsh in 1870 to the then Wild West, with pictures of the members of the party.
- Grinnell, Hilda Wood** 1918 A
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- Grobbe, K.** 1904 A
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- Gruber, Wenzel** 1873 A
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 Science (n.s.), xxv, 1005-1006.
- 1910 A
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 Jour. Elisha Mitchell Sci. Soc., xxvi, 58-59.
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- 1914 A
 History of the spotted eagle ray, *Aetobatus narinari*, together with a study of its external structures.
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- 1918 A
Sphyræna barracuda; its morphology, habits and history.
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- Gutberlet, John Earl** 1915 A
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- Haacke, Wilhelm** 1886 A
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- Haeckel, Ernst** 1868 A
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Natürliche Schöpfungsgeschichte.
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Translation into English in two volumes, 1876, revised by E. Ray Lankester.
- Haeckel, Ernst**—Continued 1893 A
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Ann. Mag. Nat. Hist. (4), iv, 182-189.
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- Hanke, Herbert** 1914 A
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Nerve foramina in the pig scapula.
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The coracoid of *Sus scrofa*.
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- 1919 B
The ontogeny and phylogeny of the sternum.
Amer. Jour. Anat., xxvi, 41-115, 49 figs.
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The history of the earliest stages in the human clavicle.
Anat. Record, xix, 309-317, pls. i-iv.
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- 1920 B
The problem of the coracoid.
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Tour to the caves of Virginia.
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- Harlan, R.—Continued** 1833 A
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- Harlé, Edouard** 1901 A
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- Harless, Emil** 1850 A
Ueber den Zahnbau von *Myliobates* und dem verwandten Rochen *Trikeras*.
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- Harmer, Frederic William** 1901 A
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- Harper, Francis** 1920 A
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Eocäne Schildkröten von Messel bei Darmstadt.
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- 1922 B
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The development of the fins of teleosts.
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- 1895 A
Die Entwicklung der unpaaren und paarigen Flossen der Teleostier.
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There is a bibliography of 42 titles.
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Ueber die Episternalgebilde der Vögel.
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- Hartnagel, C. A., and Sherman C. Bishop** 1923 A
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- Hase, Albrecht** 1907 A
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Jena. Zeitschr. Naturwiss., XLII, 607-664, pls. xxxviii-xl, 26 text-figs.
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- 1913 A
Skelett der Tiere.
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- Haseman, J. D.** 1912 A
The relationship of the genus *Priscacara*.
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- 1871 B
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Anat. Stud., I, 377-416, pl. xviii.
- 1872 A
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- 1873 B
Ueber den Bau des Gehörorganes von *Siredon piciformis* und über die vergleichende Anatomie des Kiefer-suspensorium.
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- 1873 D
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- 1892 B
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- 1893 B
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Studien zur vergleichenden Anatomie der Wirbelsäule, insbesondere des Menschen und der Säugethiere.
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- Hasse, Georges** 1910 A
Les morses du Pliocène poederlien à Anvers.
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Note on the elaspers of *Heptanchus*.
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- 1909 G
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- 1912 C
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- 1912 D
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- 1912 E
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- 1913 A
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- 1913 B
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Proc. U. S. Nat. Mus., xlii, 569-594, pls. lxix-lxxiii, 28 text-figures.
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- 1913 C
The extinct bisons of North America; with description of one new species, *Bison regius*.
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Abstracts in Jour. Wash. Acad. Sci., V, 582-583; Nature, London, XCV, 298; Rev. crit. Paléozool., XXIII, 19-21; L'Anthropologie, XXIX, 115-117.
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Science (n.s.), XLI, 878.
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Publ. Carnegie Instn. Wash. Year Book No. 14, 386-387.
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Exhibition of skull of walrus.
Science (n.s.), XLIII, 330.
- Hay, O. P.—Continued 1916 C
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Rep. Florida Geol. Surv., VIII, 39-76, pls. i-ix.
Abstract in Rev. crit. Paléozool., XXV, 11.
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- 1916 D
Descriptions of two extinct mammals of the order Xenarthra from the Pleistocene of Texas.
Proc. U. S. Nat. Mus., LI, 107-123, pls. iii-vii.
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The Quaternary deposits at Vero, Florida, and the vertebrate remains contained therein.
Jour. Geol., XXV, 52-55.
Reprints of this paper were distributed a few days before Jan. 1, 1917.
Abstract in Geol. Zentralbl., XXX, 222-223.
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- 1916 F
A new Pleistocene sloth from Texas.
Jour. Wash. Acad., VI, 24.
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- 1917 A
A cervical vertebra of a deer from a deposit in Florida.
Science (n.s.), XLV, 72.
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- 1917 B
Descriptions of some fossil vertebrates found in Texas.
Bull. Univ. Texas, 1916, No. LXXI, 1-24, pls. i-iv. Not issued until after Jan. 1, 1917.
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- 1917 C
On the finding of supposed Pleistocene human remains at Vero, Florida.
Jour. Wash. Acad. Sci., VII, 358-359.
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- 1917 D
On a collection of fossil vertebrates made by Dr. F. W. Cragin in the *Equus* beds of Kansas.
Kan. Univ. Sci. Bull., X, 39-51, with pls. i-iii.
Abstract in Rev. crit. Paléozool., XXIV, 97-98.
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- 1917 E
Vertebrata mostly from stratum No. 3, at Vero, Florida, together with descriptions of new species.
Rep. Florida Geol. Surv., IX, 43-68, pl. iii, figs. 1-6.
Review in Science (n.s.), XLVII, 394-395.
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- Hay, O. P.—Continued** 1917 F
Description of a new species of extinct horse, *Equus lambei*, from the Pleistocene of Yukon Territory.
Proc. U. S. Nat. Mus., LIII, 435-443, pls. lvi-lviii.
Abstract in Geol. Zentralbl., xxvii, 508.
- 1917 G
Description of a new species of mastodon, *Gomphotherium elegans*, from the Pleistocene of Texas.
Proc. U. S. Nat. Mus., LIII, 219-221, pl. xxvi.
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Abstract in Geol. Zentralbl., xxvii, 508.
- 1917 H
Dean and Eastman's Bibliography of Fishes.
Amer. Naturalist, LI, 383-384.
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Bull. Geol. Soc. Amer., xxviii, 212-213.
- 1918 A
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Science (n.s.), XLVII, 370-371.
- 1918 B
Further consideration of the occurrence of human remains in the Pleistocene deposits at Vero, Florida.
Amer. Anthropologist, xx, 1-36, 1 map.
- 1918 C
Quaternary vertebrates in southwestern Wisconsin.
U. S. Geol. Surv. Profess. Pap., cvi, 346-347.
- 1918 D
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Science (n.s.), XLVIII, 459-462.
- 1919 A
Pleistocene geology and vertebrate paleontology of the Atlantic coast plain.
Publ. Carnegie Instn. Wash. Year Book No. 17 (1918), 311-312.
- 1919 B
On some proboscideans of the State of New York.
Science (n.s.), XLIX, 377-379.
- Hay, O. P.—Continued** 1919 C
Description of some mammalian and fish remains from Florida, of probably Pleistocene age.
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Brief review in Rev. crit. Paléozool., xxiv, 140.
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- 1919 D
On the relative ages of some Pleistocene deposits.
Amer. Jour. Sci. (4), XLVII, 361-375.
Abstract in Geol. Zentralbl., xxv, 269.
- 1920 A
Report on work on Pleistocene paleontology.
Publ. Carnegie Instn. Wash. Year Book No. 18, 361-362.
- 1920 B
Descriptions of some Pleistocene vertebrates found in the United States.
Proc. U. S. Nat. Mus., LVIII, 83-146, pls. iii-xi, 4 text-figs.
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Abstract in Rev. crit. Paléozool., xxvi, 133.
- 1921 B
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Publ. Carnegie Instn. Wash. Year Book No. 19, for 1920, 402-404.
- 1922 A
Report on work done on the Pleistocene epoch and its vertebrate animals.
Publ. Carnegie Instn. Wash. Year Book No. 20, 445-446.
- 1922 B
Description of a new fossil sea cow from Florida, *Metaxytherium floridanum*.
Proc. U. S. Nat. Mus., LXI, art. 17, 1-4, pl. i. Abstract in Rev. Geol. et Sci. conn., iv, 1923, 94. (Place of publication wrongly stated.)
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- Hay, O. P.—Continued 1922 C
On the phylogeny of the shell of the Testudinata and the relationships of *Dermochelys*.
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1-19 pages, pls. i-iv; text-figs. 1-10.
Washington. Distributed by the author, June 12, 1922.
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Jour. Morphol., xxxvi, 421-445, pls. i, ii, 1 text-fig.
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- 1922 G
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Acta Zool., III, 392-393.
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- 1923 A
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Publ. Carnegie Instn. Wash., No. 322, i-vii+1-499 pages, with 41 maps and 25 text-figs.
Noticed in Amer. Jour. Sci. (5), v, 424-425; Nature, cxii, 111.
- 1923 B
Characteristics of sundry fossil vertebrates.
Pan-Amer. Geol., xxxix, 101-120, pls. vii-ix, text-figs. 4, 5.
- 1923 C
Description of remains of *Bison occidentalis* from central Minnesota.
Proc. U. S. Nat. Mus., LXIII, art. 5, 1-8, pls. i, ii.
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- 1923 D
'Oligocene sea turtles of South Carolina.
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- Hay, O. P.—Continued 1923 E
Report on work done on the Pleistocene epoch and its vertebrate fossils.
Publ. Carnegie Instn. Wash. Year Book No. 21, 395.
- 1924 A
Description of some fossil vertebrates from the Upper Miocene of Texas.
Proc. Biol. Soc. Wash., xxxvii, 1-19, pls. i-vi, 1 text-fig.
- 1924 B
On the geological age of the Walker Hotel swamp deposit, in Washington, D. C., and on the origin and the age of the coastal plain terraces in general.
Jour. Wash. Acad. Sci., xiv, 255-264.
- 1924 C
Notes on the osteology and dentition of the genera *Desmostylus* and *Cornwallius*.
Proc. U. S. Nat. Mus., LXV, art. 8, 1-8, 2 pls., 2 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1925, I, 446.
- 1924 D
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Publ. Carnegie Instn. Wash. 322 A, i-vii+1-385 pages, 29 maps, 5 text-figs.
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- 1924 E
On the status of privately issued papers on systematic zoology.
Proc. Biol. Soc. Wash., xxxvii, 109-112.
- 1925 A
A further and detailed description of the type of *Elephas roosevelti* and descriptions of three referred specimens.
Proc. U. S. Nat. Mus., LXVI, art. 34, 1-6, pls. i-iv, 1 text-fig.
- 1925 B
On remains of mastodons found in Texas, *Ananeus brazosius* and *Gomphotherium eimarronis*.
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- 1925 C
Extinct proboscideans of Mexico.
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- 1925 D
On the correlation of certain Pleistocene deposits and their fossils.
Jour. Wash. Acad. Sci., xv, 239-246.

- Hay, O. P.—Continued** 1925 E
Review of Dr. Günther Schlesinger's paper on mastodons.
Jour. Wash. Acad. Sci., xv, 381-387.
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Two new Pleistocene mastodons.
Jour. Wash. Acad. Sci., xvi, 35-41, pls. i, ii.
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Description of remains of an elephant found at Port Williams, Washington.
Jour. Wash. Acad. Sci., xvi, 154-159, with plate.
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- 1926 C
A collection of Pleistocene vertebrates from southwestern Texas.
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Jour. Wash. Acad. Sci., xvi, 387-392.
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Professor Osborn on the mammals and the birds of the California tar pools.
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Jour. Wash. Acad. Sci., xvii, 5-7.
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The prong-horn antelope in Illinois.
Jour. Mamm., VIII, 61-62.
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Jour. Wash. Acad. Sci., xvii, 277-283.
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The citations from this volume are mostly made to the index.
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Further consideration of the skull of *Chelys* and of the constitution of the armor of turtles in general.
Proc. U. S. Nat. Mus., LXXIII, art. 3, 1-12, 2 pls.
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Note on the fossil jaw of *Bison*, from the Pliocene of Norton County [Kansas].
Trans. Kansas Acad. Sci., ix, 98.
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A geological reconnaissance in southwestern Kansas.
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The geology of the Fort Riley military reservation and vicinity, Kansas.
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Preliminary report of the U. S. Geological Survey of Wyoming and portions of contiguous territories. (Being a second annual report of progress.)
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- Hayek, Heinrich** 1924 A
Über das Schicksal des Proatlans und über die Entwicklung der Kopfgelenke bei Reptilien und Vögeln.
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 Oil fields of the Texas-Louisiana Gulf coastal plain. Bull. U. S. Geol. Surv., ccxii, 1-174, maps and figures.
- Hayes, Seth** 1895 A
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- 1895 B
 The Shaw mastodon. An examination and description of mastodon and accompanying mammalian remains found near Cincinnati, June 1894. Rep. Ohio Acad. Sci., iii, 37-41, 1 plate.
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- 1851 A
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- Heilmann, Gerhard** 1913 A
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- Heilmann, Gerhard—Continued** 1913 B
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- 1914 A
 Same general titles as Heilmann, G., 1913 A. Traek of Fosterudviklingen hos Krybdyr og Fugle. Tredje Afsnit. Dansk ornith. For. Tidsskr., ix, 1-96, figs. 110-159.
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 Fuglenes Afstamning. Kjöbenhavn, 1916, liii+398 pages, 215 figs. This book, not seen by the present writer, is a collection of the parts 1-5 recorded under Heilmann, 1913 A, 1913 B, 1914 A, 1915 A, and 1916 A. For an abstract see Geol. Zentralbl., xxiii, 413.
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 The origin of birds. 8vo., London, i-iii+1-208 pages, 2 colored pls., 142 text-figs. Bibliographies on pages 63, 98, 133, 201.
- Heilprin, Angelo** 1887 A
 The geographical and geological distribution of animals. International Scientific Series, New York and London. 8vo., i-xii+1-435 pages, with map.
- 1888 A
 Report of the curators. Proc. Acad. Nat. Sci. Phila. for 1887, 411-416.
- 1901 A
 Fossils and their teachings. Scient. Amer. Suppl., lii, 21472-21473.
- Heim, Arnold** 1905 A
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- Heinick, Paul** 1908 A
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Zool. Jahrb., Anat., xxvi, 355-402, pls. xix, xx, 18 text-figs.
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- Heinrich, G.** 1909 A
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Arch. mikr., Anat. Bonn, LXXIV, 781-811, pls. xl, xli.
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Ueber die Anpassung des Gehörorganes der Wassersäugethiere an das Leben im Wasser.
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- Hennig, Edwin** 1906 A
Gyrodus und die Organisation der Pyknodonten.
Palæontogr., LIII, 137-206, pls. x-xiii, 16 text-figs.
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- 1915 C
Otolithen bei *Palæoniscus*.
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Fossilium Catalogus, I, Animalia, Pt. IX, 1-16.
A list of the genera and species with references to the principal literature.
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Abstract in Geol. Zentralbl., xxiii, 351.
- 1919 A
Die Entstehung des Säugerzahns und die Paläontologie.
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Review of Schlosser's work on Pisces in Zittel's "Grundzüge der Paläontologie," 1918.
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- Henning, Charles L.** 1912 A
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- Hermann, Adam** 1908 A
Modern methods of excavating, preparing and mounting fossil skeletons.
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Weitere Beobachtungen über Zahn-defecte bei fossilen und lebenden Tieren.
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 Die Rehgehörne der geologisch-paläontologischen Sammlung des westpreussischen Provinzial-Museums in Danzig, mit besonderer Berücksichtigung hyperplastischer und abnormer Bildungen.
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Washington, March 18, 1863.
Dear Sir: I have the pleasure of sending you by mail, on the part of the Author, my brother, a copy of his Report on the geology and agriculture of the State of Mississippi. The publication of this volume has been delayed until now by the disturbed state of political affairs. Yours very respectfully,
(Signed) J. E. Hilgard.
Dr. F. B. Meek, Albany.
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Science (n.s.), XXVII, 191-192.
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- 1911 A
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- 1916 B
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 The osteology of the Chalicotheroidea; with special reference to a mounted skeleton of *Moropus elatus* Marsh, now installed in the Carnegie Museum.
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Early ontogenetic phenomena in mammals and their bearing on our interpretation of the phylogeny of the vertebrates.
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Uebersicht über die Reptilien der Trias.
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- 1906 A
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- 1907 A
Skeletsystem. Paläontologisches.
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Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 286-292; Rev. crit. Paléozool., xv, 205-206; Geol. Zentralbl., xii, 222; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 160; Sci. Progress, ii, 514; iii, 459.
- 1908 C
On the age of the reptile faunas contained in the Magnesian conglomerate at Bristol and in the Elgin Sandstone.
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Zur Beurteilung der Sauropoden.
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 Ein Beitrag zur Beurteilung der Sacralrippen.
 Anat. Anz., xxxiii, 378-381.
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 Beiträge zur Lösung der Praepubisfrage bei Dinosaurien und anderen Reptilien.
 Anat. Anz., xxxiii, 401-405.
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 Ann. Mag. Nat. Hist. (8), I, 228-230.
 Abstract in Geol. Centralbl., xi, 473, 604.
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- 1908 H**
 Skeletsystem. Paläontologisches.
 Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 156-175.
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 Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 131.
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 Geol. Pal. Abh. Jena. (N.F.), viii (xii), 317-322, pl. 1 (xliii), 2 text-figs.
 Brief note on, in Neues Jahrb. Min. Geol. Pal., 1911, I, 145.
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- 1909 D**
 Neubeschreibung des permischen Stegocephalen *Dasyceps bucklandi* (Lloyd) aus Kenilworth.
 Geol. Pal. Abh. Jena. (N.F.), viii (xii), 323-328, pls. i, ii (xliv, xlv), 14 text-figs.
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- Huene, Friedrich—Continued 1909 E**
 Review of B. Brown: The Ancylosauridae, a new family of armored dinosaurs from the Upper Cretaceous (Brown, B., 1908 B).
 Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 440-441.
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- 1909 F**
 Vorläufige Mitteilung über einen neuen *Phytosaurus* Schädel aus dem Schwäbischen Keuper.
 Centralbl. Min. Geol. Pal., 1909, 583-592, 7 figs.
 Abstract in Sci. Progress, v, 683.
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- 1910 A**
 Über den ältesten Rest von *Omosaurus* (*Dacentrurus*) im englischen Dogger.
 Neues Jahrb. Min. Geol. Pal., 1910, I, 75-78, pl. vii, 1 text-fig.
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- 1910 B**
 Über einen echten Rhynchocephalen aus der Trias von Elgin, *Brachyrhynodon taylori*.
 Neues Jahrb. Min. Geol. Pal., 1910, II, 29-62, 28 text-figs.
 Abstract in Sci. Progress, v, 683.
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- 1910 C**
 Review of O. P. Hay: Descriptions of two new genera and two new species of fossil turtles (Hay, O. P., 1906 B).
 Neues Jahrb. Min. Geol. Pal., 1910, II, 302.
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- 1910 D**
 Ein ganzes *Tylosaurus*-Skelett.
 Geol. Pal. Abh., Jena (N.F.), viii (xii), 297-314, pls. xli, xlii (Heft vi, 1-22, pls. i, ii), 18 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 146; Geol. Centralbl., xv, 126-127; Sci. Progress, v, 684; Rev. crit. Paléozoöl., xv, 208.
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- 1910 E**
 Ein primitiver Dinosaurier aus der mittleren Trias von Elgin.
 Geol. Pal. Abh., Jena (N.F.), viii (xii), 315-322, pls. xlii (Heft vi, 1-30, pl. i), 2 text-figs.).
 Abstract in Geol. Centralbl., xv, 62-63.
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- 1910 F**
 Skeletsystem. Paläontologisches.
 Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 147-163.
 On pages 147-156 are listed 205 titles, abstracts of many of which are furnished on succeeding pages.

- Huene, Friedrich—Continued 1911 A**
 Kurze Mitteilung über Perm, Trias und Jura in New Mexico.
 Neues Jahrb. Min. Geol. Pal., Beil.-Bd. xxxii, 730-739, pl. xxxii, 2 text-figs.
- 1911 B
 Über einen *Platecarpus* in Tübingen.
 Neues Jahrb. Min. Geol. Pal., 1911, II, 48-50, pl. iii.
 Abstracts in Geol. Centralbl., xvii, 335; Sci. Progress, vi, 576.
- 1911 C
 Beiträge zur Kenntnis des Ceratopsidenschädels.
 Neues Jahrb. Min. Geol. Pal., 1911, II, 146-162, 10 text-figs.
 Abstracts in Geol. Centralbl., xviii, 330; Neues Jahrb. Min. Geol. Pal., 1912, I, Ref., 140-141; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 208.
- 1911 D
 Ueber *Erythrosuchus*, Vertreter der neuen Reptil-Ordnung *Pelycosima*.
 Geol. Pal. Abh. Jena (N.F.), x, 1-60, pls. i-xii, 60 text-figs.
 Abstract in Geol. Centralbl., xvi, 714-715; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 209. Review in Jour. Geol., xix, 661-664.
- 1911 E
 Beiträge zur Kenntnis und Beurteilung der Parasuchier.
 Geol. Pal. Abh. Jena (N.F.), x, 65-121, pls. i-viii, 36 text-figs.
 Abstracts in Rev. crit. Paléozool., xv, 208; Geol. Centralbl., xvi, 714; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 209.
- 1911 F
 Ueber die Procolophoniden mit einer neuen Form aus dem Buntsandstein.
 Centralbl. Min. Geol. Pal., 1911, 78-83, 5 figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 208.
- 1911 G
 Skeletsystem. Paläontologisches.
 Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 145, 161.
- 1912 A
 Die Cotylosaurier der Trias.
 Palaeontogr., LIX, 69-102, pls. iv-ix, 30 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 444-445; Geol. Centralbl., xviii, 328-330.
- 1912 B
 Der zweite Fund des Rhynchocephalen *Brachyrhinodon* in Elgin.
 Neues Jahrb. Min. Geol. Pal., 1912, I, 51-57, pls. iv, v, 4 text-figs.
- Huene, Friedrich—Continued 1912 C**
 Review of R. S. Lull: The life of the Connecticut Trias.
 Neues Jahrb. Min. Geol. Pal., 1912, II, 120.
 An abstract of Lull's paper. Lull, R. S., 1912 D. Amer. Jour. Sci., xxxiii, 1912, 397-422.
- 1912 D
 Beiträge zur Kenntnis des Schädels von *Eryops*.
 Anat. Anz., xli, 98-104, 8 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 448; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 76.
- 1912 E
 Der Unterkiefer von *Diplocaulus*.
 Anat. Anz., xlii, 472-475, 3 text-figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1913, II, Ref., 350; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 77.
- 1912 F
 Die Herkunft des Os interparietale der Mammalia.
 Anat. Anz., xlii, 522-524, 5 text-figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1913, Ref., II, 346; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 77.
- 1912 G
 [Remarks made in course of reviewing papers on vertebrate paleontology.]
 Neues Jahrb. Min. Geol. Pal., 1912, I, Ref., 134-143.
- 1913 A
 A new phytosaur from the palisades near New York.
 Bull. Amer. Mus. Nat. Hist., xxxii, 275-283, pls. xlix, l, 14 text-figs.
 For abstracts see Neues Jahrb. Min. Geol. Pal., 1914, I, 334; Sci. Progress, viii, 641; Rev. crit. Paléozool., xviii, 5; xx, 49; Geol. Zentralbl., xxi, 264; Nature, xcii, 514.
- 1913 B
 The skull elements of the Permian Tetrapoda in the American Museum of Natural History, New York.
 Bull. Amer. Mus. Nat. Hist., xxxii, 315-386, 57 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 150-151; Rev. crit. Paléozool., xviii, 5; xx, 50-54; xxi, 49; Geol. Zentralbl., xxi, 267; Geol. Mag. (5), x, 571.
- 1913 C
 Über *Lysorophus* aus dem Perm von Texas.
 Anat. Anz., xliii, 339-396, 5 text-figs.
 For review see Neues Jahrb. Min. Geol. Pal., 1913, II, Ref., 350-352.

- Huene, Friedrich—Continued** 1913 D
 Das Hinterhaupt von *Dimetrodon*.
 Anat. Anz., XLIII, 519-522, 4 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), XIX, pt. 3, 68.
- 1913 E
 Ad notam.
 Centralbl. Min. Geol. Pal., 1913, 480.
- 1913 F
 Beobachtungen über die Bewegungsart der Extremitäten bei Krokodilen.
 Biol. Centralbl., XXXIII, 468-472, 7 figs.
- 1913 G
 Stegocephalen.
 Handwörterbuch der Naturwissenschaften (Gustav Fischer, Jena), IX, 501-508, figs. 1-21.
 The bibliography comprises 15 titles.
- 1914 A
 The dinosaurs not a natural order.
 Amer. Jour. Sci. (4), XXXVIII, 145-146.
- 1914 B
 Saurischia and Ornithischia.
 Geol. Mag. (6), I, 444-445.
 Abstract in Geol. Zentralbl., XXVI, 315.
- 1914 C
 Über die Zweistämmigkeit der Dinosaurier, mit Beiträgen zur Kenntnis einiger Schädel.
 Neues Jahrb. Min. Geol. Pal., Beil.-Bd. XXXVII, 577-589, pls. vii-xii.
 Abstract in Geol. Zentralbl., XXII, 414.
- 1914 D
 Das natürliche System der Saurischia.
 Centralbl. Min. Geol. Pal., 1914, 154-158, 1 text-fig.
 Abstract in Geol. Zentralbl., XXII, 29.
- 1914 E
 Neue Beschreibung von *Ctenosaurus* aus dem Göttinger Buntsandstein.
 Centralbl. Min. Geol. Pal., 1914, 496-499, 2 text-figs.
 Abstract in Geol. Zentralbl., XXII, 413.
- 1914 F
 Coelurosaurier-Reste aus dem unteren Muschelkalk.
 Centralbl. Min. Geol. Pal., 1914, 670-672, 2 text-figs.
- 1914 G
 Beiträge zur Geschichte der Archosaurier.
 Geol. Pal. Abh. Jena (N.F.), XIII (XVII), 1-53, pls. i-vii, 61 text-figs.
 There is a bibliography of 45 titles.
 Abstracts in Neues Jahrb. Min. Geol., 1914, I, Ref., 503-507; Geol. Zentralbl., XXII, 414.
- Huene, Friedrich—Continued** 1914 H
 Beiträge zur Kenntnis des Schädels einiger Pterosaurier.
 Geol. Pal. Abh. Jena (N.F.), XIII (XVII), 55-65, pls. i, ii, 10 text-figs.
 Reviewed in Neues Jahrb. Min. Geol. Pal., 1917, I, 109-110.
 Abstract in Geol. Zentralbl., XXII, 414.
- 1914 I
 Nachträge zu meinen früheren Beschreibungen triassischer Saurischia.
 Geol. Pal. Abh. Jena, (N.F.), XIII (XVII), 67-82, 56 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, 507; Geol. Zentralbl., XXII, 414.
- 1914 J
 Ueber Ichthyosaurier der Schwäbischen Trias.
 Jahresh. Ver. Naturk. Württemb., LXX, lxxxix-xc.
- 1914 K
 Saurischia und Ornithischia triadica ('Dinosauria' triadica).
 Fossilium Catalogus. I: Animalia. Pt. IV, 1-21.
 A list of the genera and species, with references to the most important literature of the subject.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 468.
- 1915 A
 On reptiles of the New Mexican Trias in the Cope collection.
 Bull. Amer. Mus. Nat. Hist., XXXIV, 485-507, 64 text-figs.
 Abstract in Geol. Zentralbl., XXVIII, 446.
- 1915 B
 Beiträge zur Kenntnis einiger Saurischier der schwäbischen Trias.
 Neues Jahrb. Min. Geol. Pal., 1915, I, 1-27, pls. i-vii, text-figs. 1-17.
- 1916 A
 Beiträge zur Kenntnis der Ichthyosaurier im deutschen Muschelkalk.
 Palaeontogr., LXII, 1-68, pls. i-viii, 96 text-figs.
 Abstracts in Rev. crit. Paléozool., XXVIII, 20; Geol. Zentralbl., XXIV, 29-31.
- 1918 A
 Review of W. D. Matthew's "A marsupial from the Belly River Cretaceous" (Matthew, W. D., 1916 A).
 Neues Jahrb. Min. Geol. Pal., 1918, Ref., 207-210.

- Huene, Friedrich**—Continued 1920 A
 Stammesgeschichtliche Ergebnisse einiger Untersuchungen an Trias-Reptilien.
 Zeitschr. induct. Abstamm. Vererbl., xxiv, 159-163, pl. vii, 1 text-fig.
- 1920 B
 Neue Beobachtungen an *Simosaurus* und ihre Verwertung zur Stammesgeschichte der Sauropterygier.
 Zeitschr. induct. Abstamm. Vererbl., xxiii, 206-209.
- 1920 C
 Systematische und genetische Betrachtungen über die Stegocephalen.
 Zeitschr. induct. Abstamm. Vererbl., xxiii, 209-212.
- 1920 D
Sclerosaurus und seine Beziehungen zu anderen Cotylosauriern und zu den Schildkröten.
 Zeitschr. induct. Abstamm. Vererbl., xxiv, 163-166.
- 1920 E
 Ein Parasuchier aus dem oberen Muschelkalk von Bayreuth.
 Senckenbergiana, ii, 143-145, with figs.
- 1920 F
Gonioglyptus, ein alttriassischer Stegocephale aus Indien.
 Acta Zool., i, 433-464, pls. i-iii, 14 text-figs.
 There are 30 titles cited in the bibliography.
- 1920 G
 Osteologie von *Aëtosaurus ferratus* O. Fraas.
 Acta Zool., i, 465-491, 51 text-figs.
 11 papers are cited in the bibliography.
- 1921 A
 Neue Beobachtungen an *Simosaurus*.
 Acta Zool., ii, 1921, 201-239, pls. i-iii, 14 text-figs.
- 1921 B
 Reptilian and stegocephalian remains from the Triassic of Pennsylvania in the Cope collection.
 Bull. Amer. Mus. Nat. Hist., xliv, 561-574, 20 figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1923, ii, 427.
- 1921 C
 Coelurosaurier-Reste aus dem obersten Keuper von Halberstadt.
 Centralbl. Min. Geol. Pal., 1921, 315-320, 6 figs.
 Abstract in Geol. Zentralbl., xxvii, 509.
- Huene, Friedrich**—Continued 1921 D
 Neue Pseudosuchier und Coelurosaurier aus dem württembergischen Keuper.
 Acta Zool., ii, 329-403, 4 pls., 35 text-figs.
 20 papers are listed in the bibliography.
- 1922 A
 Ueber einen Sauropoden im obern Malm des Berner Jura.
 Eclogæ geol. Helvetiæ, xvii, 80-94, pl. 4.
 The bibliography includes 26 titles.
- 1922 B
 Die Ichthyosaurier des Lias und ihre Zusammenhänge.
 4to., Berlin, i-vi+1-114 pages, 25 pls.
 Pages 109-114 are occupied by the bibliography.
 Abstract in Geol. Zentralbl., xxx, 445-446.
 Review in Jour. Geol., xxxi, 687; Nature, cxii, 276.
- 1922 C
 Zur Osteologie des *Dicynodon*-Schädels.
 Palaeont. Zeitschr., v, 58-71, 4 figs.
 The volume is sometimes cited as of 1923.
 Abstract in Geol. Zentralbl., xxxii, 118.
- 1922 D
 Bemerkungen über das Becken von *Ichthyosaurus quadricissus*.
 Centralbl. Min. Geol. Pal., 1922, 277-282, 1 fig.
- 1922 E
 The Triassic reptilian order Thecodontia.
 Amer. Jour. Sci. (5), iv, 22-26.
 The bibliography presents 27 titles.
 Abstract in Geol. Zentralbl., xxix, 253.
- 1922 F
 Kurzer Überblick über die triassische Reptilordnung Thecodontia.
 Centralbl. Min. Geol. Pal., 1922, 408-415, 1 table.
 The bibliography consists of 26 titles.
- 1922 G
 Beiträge zur Kenntnis der Organisation einiger Stegocephalen der schwäbischen Trias.
 Acta Zool., iii, 395-460, pls. i, ii, 44 text-figs.
 The bibliography presents 42 titles.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1923, ii, 423-424.
- 1922 H
 Neue Untersuchungen zur Kenntnis der Parasuchier.
 Jahrb. geol. Landesanst., Berlin, xlii, 1921 (1922), 59-160, 153 figs.
 The literature cited comprises 60 titles.

- Huene, Friedrich**—Continued 1922 I
Parasuchier und ihre Verwandten.
Jahresh. Ver. Naturk. Württemb., LXVIII,
xlv-xlvi.
- 1923 A
Carnivorous Saurischia in Europe
since the Triassic.
Bull. Geol. Soc. Amer., xxxiv, 449-458,
3 figs.
- 1923 B
Contribution to the vomer-parasphenoid
question.
Bull. Geol. Soc. Amer., xxxiv, 459-462,
2 figs.
- 1923 C
Lines of phyletic and biological development
of the Ichthyopterygia.
Bull. Geol. Soc. Amer., xxxiv, 463-468,
2 figs.
- 1923 D
Die Stammesentwicklung der Ichthyosaurier.
Palaeont. Zeitschr., v, 265-271.
- 1925 A
Ichthyosaurier-Reste aus Argentinien.
Centralbl. Min. Geol. Pal., 1925, 90-95,
6 figs.
- 1925 B
Eine neue Rekonstruktion von *Compsognathus*.
Centralbl. Min. Geol. Pal., 1925, 157-160,
1 fig.
The bibliography presents 12 titles.
- 1925 C
Triassischer Säugetierzahn aus Südwestafrika.
Centralbl. Min. Geol. Pal., 1925, 174-181,
3 figs.
- 1925 D
Stammlinien der Reptilien.
Centralbl. Min. Geol. Pal., 1925, 229-239,
9 figs.
The bibliography includes 19 titles.
- 1925 E
Einige Beobachtungen an *Mixosaurus cornalianus* (Bassani).
Centralbl. Min. Geol. Pal., 1925, 289-295,
3 figs.
There is a bibliography of 9 titles.
- 1925 F
Ichthyosaurier aus der Kreide Argentinien.
Rev. Mus. La Plata, xxviii (ser. 3, iv),
234-238, figs. 1-5.
In German, followed by a Spanish translation.
- Huene, Friedrich**—Continued 1925 G
Die Bedeutung der *Sphenosuchus* Gruppe für den Ursprung der Krokodile.
Zeitschr. induct. Abstamm. Vererbbl.,
xxxviii, 307-320, folding pls. iv, v, 1 text-fig.
The bibliography contains 14 titles.
- 1925 H
Shastasaurus-Reste in der alpinen Trias.
Centralbl. Min. Geol. Pal., 1925, 412-417.
- 1925 I
Ein neuer Pelycosaurier aus der unteren Permformation Sachsens.
Geol. Pal. Abh. Jena, xviii (N.F. xiv),
215-264 (Heft 5, 3-52), pls. xxvi-xxxiii (i-viii),
28 text-figs.
In the bibliography are recorded 105 titles.
- 1926 A
Zur Frage der phylogenetischen Bedeutung des Wirbelbaues der Tetrapoden.
Palaeont. Zeitschr., vii, 260-267, 3 figs.
- 1926 B
The carnivorous Saurischia in the Jura and Cretaceous formations principally in Europe.
Rev. Mus. La Plata, xxix, 35, 167, pls. i, ii, 56 text-figs.
Pages 114 to 167 are occupied by a Spanish version of the article. On pages 110 to 114 are presented 91 titles of papers pertaining to the subject.
Review in Amer. Jour. Sci. (5), xii, 458.
- 1926 C
Neue Ichthyosaurierfunde aus dem schwäbischen Lias.
Neues Jahrb. Min. Geol. Pal., Beil.-Bd.,
66-86, pls. iii-v, 8 text-figs.
- 1926 D
On several known and unknown reptiles of the order Saurischia from England and France.
Ann. Mag. Nat. Hist. (9), xvii, 473-489,
11 figs.
There is a bibliography of 20 titles.
- 1926 E
Notes on the age of the continental Triassic beds in North America, with remarks on some fossil vertebrates.
Proc. U. S. Nat. Mus., lxix, art. 18, 1-10,
6 figs.
- 1926 F
Zur Beurteilung von *Protorosaurus*.
Centralbl. Min. Geol. Pal., 1926, Abt. B,
469-475, 1 fig.

- Huene, Friedrich**—Continued 1926 G
 Einige Schildkrötenreste aus der
 obersten Trias Württembergs.
 Centralbl. Min. Geol. Pal., 1926, Abt. B,
 509-514.
- 1926 H
 Volständige Osteologie eines Plateo-
 sauriden aus dem Schwäbischen Keuper.
 Geol. Pal. Abh. Jena, xv, 1-43, 7 pls,
 2 text-figs.
- 1926 I
 Gondwana-Reptilien in Südamerika.
 Paläont. Hungarica, II, 1-108, pls. i-xxii,
 37 text-figs.
 On page 87 is a bibliography of 28 titles;
 on pages 91-92, 32 titles; on page 99, 17
 titles.
- 1927 A
 Beitrag zur Kenntnis mariner meso-
 zoischer Wirbeltiere in Argentinien.
 Centralbl. Min. Geol. Pal., 1926, Abt. B,
 22-29, 3 figs.
- 1927 B
 Sichtung der Grundlagen der jetzi-
 gen Kenntnis der Sauropoden.
 Eclogæ geol. Helvetiæ, xx, 444-470, folded
 pls. xiv, xv.
- 1927 C
 Short review of the present knowl-
 edge of the Sauropoda.
 Mem. Queensl. Mus., ix, 121-126.
- 1927 D
 Ein kalifornischer Säbellöwe.
 Aus der Heimat, XL, 144-149, 5 figs.
 7 titles are included in the bibliography.
- 1927 E
 Die Beziehungen zwischen den paläo-
 zoischen und den mesozoischen Rep-
 tilien.
 Palaeont. Zeitschr., ix, 319-326.
 The literature is cited in foot-notes.
- 1927 F
 Lebensbild des Saurischier-Vorkom-
 mens im obersten Keuper von Tros-
 singen in Württemberg.
 Palæobiol., I, 103-116, pl. x, 2 text-figs.
 There is a bibliography of 16 titles.
- 1927 G
 Contribución a la paleogeografía de
 Sud América.
 Bol. Acad. Cien. Córdoba, xxx, 231-294.
 Contains (251-265) lists of the Upper Cre-
 taceous reptiles of North America.
- Huene, Friedrich, and R. S. Lull** 1908 A
 Neubeschreibung des Originals von
Nanosaurus agilis Marsh.
 Neues Jahrb. Min. Geol. Pal., 1908, I,
 134-144, pl. xiii, 10 text-figs.
 Abstracts in Geol. Zentralbl., XII, 151;
 Nature, LXXXIII, 532.
- 1908 B
 On the Triassic reptile, *Hallopus*
victor Marsh.
 Amer. Jour. Sci. (4), xxv, 113-118.
 Abstracts in Geol. Centralbl., XI, 473;
 XII, 599; Nature, LXXVIII, 156; Neues Jahrb.
 Min. Geol. Pal. 1910, II, Ref., 144; Sci.
 Progress, III, 461.
- Hulke, J. W.** 1873 A
 Contribution to the anatomy of
Hypsilophodon foxii.
 Quart. Jour. Geol. Soc., xxix, 522-531,
 pl. xviii.
- 1874 A
 Supplemental note on the anatomy
 of *Hypsilophodon foxii*.
 Quart. Jour. Geol. Soc., xxx, 18-23, pl. iii.
- 1875 A
 Appendix to "Note on a modified
 form of dinosaurian ilium, hitherto
 reputed scapula."
 Quart. Jour. Geol. Soc., xxxii, 364-366,
 4 figs.
- 1878 A
 Note on two skulls from the Weal-
 den and Purbeck formations indicating
 a new subgroup of Crocodilia.
 Quart. Jour. Geol. Soc., xxxiv, 377-381,
 pl. xv.
- Hull, Edward** 1908 A
 On the spread of existing animals
 through Europe and to the islands of
 the Atlantic; based on Dr. Scharff's
 recent work "European animals."
 Jour. Victoria Inst., XL, 145-159; 166-167,
 a map.
- 1914 A
 On recent investigations of the sub-
 oceanic physical features of the North
 Atlantic Ocean as confirming the view
 of the distribution of European ani-
 mals by land-connection with America
 in late Tertiary times.
 C. R. Congr. internat. Zool., ix, Monaco,
 1913, 611-616.
- Humboldt, Alexander** 1838 A
 Über den Manati des Orinoko.
 Arch. Naturges., iv, i, 1-18.

- Hummel, K.** 1927 A
Die Schildkrötengattung *Trionyx* im Eozän von Messel bei Darmstadt und im aquitanischen Blätersandstein von Münzenberg in der Wetterau.
Abh. hess. geol. Landesanst., VIII, Heft 2, 1-96, pls. i-xi.
- Humphreys, John** 1908 A
The teeth of fossil fishes.
Proc. Roy. Soc. Med., I, pt. 3, Odont. sec., 7-16, pl. i.
- Humphry, G. M.** 1870 B
A comparison of the shoulder bones and muscles with the pelvic bones and muscles.
Jour. Anat. Physiol. Lond., v, 67-88, pl. iii.
- 1876 A
On the comparison of the fore and hind limbs in vertebrates.
Jour. Anat. Physiol. Lond., x, 659-671.
- Huntsman, A. G.** 1919 A
Variation of fishes according to latitude.
Science (n.s.), L, 592.
- Huot, André** 1902 A
Recherches sur le poissons lophobranches.
Ann. Sci. nat. (8), XIV, 197-238, pls. xxi-xxvi, 13 text-figs.
The bibliography presents titles of 57 works consulted.
- Husband, Rachel A.** 1924 A
Variability in *Bubo virginianus* from La Brea.
Condor, xxvi, 220-225, figs. 54-56.
- Huschke, Emil** 1822 A
Ueber Weber's "Gehörknöchelchen der Fische."
Isis von Oken, 1822, II, cols. 889-893.
- Hussakof, Louis** 1905 A
Notes on the Devonian "placoderm," *Dinichthys intermedius* Newb.
Bull. Amer. Mus. Nat. Hist., XXI, 27-36, pl. v, text-figs. 1, 2.
Abstracts in Geol. Centralbl., VIII, 380.
Rev. crit. Paléozool., x, 210.
- 1905 B
On the structure of two imperfectly known dinichthyids.
Bull. Amer. Mus. Nat. Hist., XXI, 409-414, pls. xv-xvii; 2 text-figs.
Abstracts in Geol. Centralbl., VIII, 379-380; Rev. crit. Paléozool., x, 210.
- Hussakof, Louis—Continued** 1906 A
Studies on the Arthrodira.
Mem. Amer. Mus. Nat. Hist., IX, 105-154, pls. xii, xiii, 25 text-figs.
Abstract in Rev. crit. Paléozool., XI, 19-21.
- 1908 A
Catalogue of types and figured specimens of fossil vertebrates in the American Museum of Natural History. Part I: Fishes.
Bull. Amer. Mus. Nat. Hist., xxv, 1-103, pls. i-vi, 49 text-figs. With a preface by Bashford Dean, pages 1-2.
Abstracts in Geol. Centralbl., xv, 310; Amer. Jour. Sci. (4), xxvii, 92; Jahresber. Anat. Entwickl. (N.F.), XIV, pt. 3, 158.
- 1908 B
A model of a restoration of *Dinichthys*.
Science (n.s.), xxvii, 255.
- 1908 C
Devonic fishes of the New York formations. By Charles R. Eastman. A review.
Science (n.s.), xxviii, 311-313.
- 1909 A
A new goblin shark, *Scapanorhynchus jordani*, from Japan.
Bull. Amer. Mus. Nat. Hist., xxvi, 257-262, pl. xlv, 3 text-figs.
- 1909 B
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1916 B

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1916 C

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1917 A

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1917 C

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 Raised beaches of Lake Michigan.
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 The Illinois Glacial lobe.
 Mon. U. S. Geol. Surv., xxxviii, 1899, i-xxi; 1-817, 24 plates, mostly maps, 9 text-figs.
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 Glacial formations and drainage features of the Erie and Ohio basins.
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- Lewis, Frederic T.** 1906 A
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- 1883 A
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The geology of Philadelphia.
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Zur Anatomie und Histologie der *Chimæra monstrosa*.
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8vo., Leipzig, 1852, i-iv+1-127 pages, pls. i-iv.
- 1859 A
Ueber die äusseren Bedeckungen der Säugethiere.
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Die Zähne einheimischer Schlangen nach Bau und Entwicklung.
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Das Parietalorgan der Wirbelthiere.
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Der Einfluss der Flügelform auf die Flugart der Vögel.
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Observations on the anatomy and general biology of some members of the larger Cetacea.
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- Limber, John** 1841 A
Fossil remains in Lenoir County, N. C.
Amer. Jour. Sci. (1), xl, 405.
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Report on the geology of Darke County [Ohio].
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- Linder, Hermann** 1913 A
Beiträge zur Kenntniss der Plesiosaurier-Gattungen *Peloneustes* und *Pliosaurus*; nebst Anhang: Ueber die beiden ersten Halswirbel der Plesiosaurier.
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The mining districts of the Idaho basin and the Boise Ridge.
Rep. U. S. Geol. Surv., xviii, pt. 3, 617-719, with maps and figures.
- 1900 A
The gold and silver veins of Silver City, DeLamar and other mining districts in Idaho.
Rep. U. S. Geol. Surv., xx, pt. 3, 65-256, pls. vii-xxxv, text-figs. 4-35.
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The gold belt of the Blue Mountains of Oregon.
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The Tertiary gravels of the Sierra Nevada of California.
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- , and N. F. **Drake** 1904 A
Description of the Nampa [Idaho] quadrangle.
Folio U. S. Geol. Surv., ciii, 1-5, 2 maps, 4 text-figs.
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Description of the Silver City quadrangle.
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On the avian sternum.
Proc. Zool. Soc. Lond., 684-716, pls. xlii-xlv, 6 text-figs.
- Lindström, G.** 1895 A
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- Linnaeus, Carolus** 1758 A
Systema Naturæ.
Holmiæ, 1758, 8vo., Ed. 10, I, 1-824.
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Die Verbreitung des Bibers im Quartär.
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The pelvic wing in poultry.
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Jour. Geol., XXXIII, 523-547, 1 text-fig.
- Lloyd, J. H., and Edith M. Sheppard** 1922 A
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Records of the Past, III, 43-46.
- Lobley, J. Logan** 1908 A
The American fauna and its origin.
Jour. Victoria Inst., XL, 190-221.
- Lockington, William N.** 1884 A
Natural history of mammals, Cetacea, Cynoidea, Æluroidea, Pinnipedia.
Stand. Nat. Hist., v, 178-209, figs. 96-111; 408-479, figs. 190-223.
- Lockwood, S.** 1882 A
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- 1883 B
A mastodon in an old beaver-meadow.
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- 1884 A
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Stand. Nat. Hist., v, 353-408, figs. 172-189.
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- Loder, Edmund G.** 1914 A
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- Löhle, B.** 1913 A
Die Bildung des Gaumens bei *Cavia cobaya*.
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Pisces (Fische).
Bronn's Klass. Ordn., VI, Abth. 1, 1-48.
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On the variation of the elk (*Alces alces*).
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- 1905 A
On some fossil remains of a condor from Bolivia.
Bull. Geol. Inst. Upsala, VI, 1-11, 4 text-figs.
- 1907 A
Notes on Steller's sea-cow.
Fauna Flora Upsala, II, 1-13, 1 fig.
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- Lönnberg, Einar**—Continued 1907 B
A page from the history of the phylogeny of the elephants.
Fauna Flora Upsala, II, 53-69; 110-119; 10 text-figs.
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- 1909 A
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Arkiv Zool., v, No. 6, 1-16, 5 text-figs.
- 1909 B
Taxonomic notes about palearctic reindeer.
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- 1910 A
The object and use of tails in the case of vertebrate animals.
Fauna Flora Upsala, v, 9-25, 49-71, 118-128, 17 text-figs.
The title and the text are in Swedish.
- 1910 B
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- 1911 B
Der Penisknochen zweier seltener Carnivoren.
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- 1911 C
Remarks on the dentition of *Delphinapterus leucas*.
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- 1911 D
The pelvic bones of some Cetacea.
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- 1913 A
Notes on guanacos.
Arkiv Zool., VIII, No. 19, 1-8, 2 text-figs.
- 1916 A
A remarkable occurrence of the first hind toe in the common fox (*Vulpes vulpes*).
Arkiv Zool., x, No. 21, 1-5, 2 figs.
- Lönnberg, Einar**—Continued 1922 A
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- 1923 A
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- 1924 A
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- Loewe, Stephan** 1914 A
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- Lohest, M.** 1888 A
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- 1888 B
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- 1904 A
Two new river reptiles from the Titanotherium beds.
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- 1904 B
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Science (n.s.), xix, 254.
- 1905 A
Hyopsodidae of the Wasatch and Wind River basins.
Amer. Jour. Sci. (4), xix, 416-424, 8 text-figs.
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- 1905 B
Momentum in variation.
Amer. Naturalist, xxxix, 839-843, 2 text-figs.
- 1905 C
The Amherst College expedition to the Wasatch and Wind River basins in 1904.
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- 1906 A
Wasatch and Wind River Primates.
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Abstract in Geol. Centralbl., xi, 106.
- 1906 B
A fossil bird from the Wasatch.
Amer. Jour. Sci. (4), xxii, 481-482, 3 text-figs.
- 1907 A
Wasatch and Wind River rodents.
Amer. Jour. Sci. (4), xxiii, 123-130, 7 text-figs.
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- 1907 B
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- Loomis, F. B.—Continued** 1908 A
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- 1908 B
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Amer. Jour. Sci. (4), xxvi, 163-165, 1 text-fig.
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- 1909 A
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A new genus of peccaries.
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- 1910 B
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Amer. Jour. Sci. (4), xxix, 297-323, 30 text-figs.
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- 1910 C
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- 1911 A
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Amer. Jour. Sci. (4), xxxi, 227-229, figs. 1, 2.
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- 1911 B
The camels of the Harrison beds, with three new species.
Amer. Jour. Sci. (4), xxxi, 65-70, 3 text-figs.
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- 1915 A
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Amer. Jour. Sci. (4), XXXIX, 555-566, 9 text-figs.
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- 1917 A
South Carolina mastodon (abstract).
Bull. Geol. Soc. Amer., XXVIII, 210.
- 1918 A
An unusual mastodon.
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- 1919 A
An amphibian from the Eocene.
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- 1920 A
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- 1924 B
Miocene oreodonts in the American Museum.
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- 1924 C
Artifacts associated with the remains of a Columbian elephant at Melbourne, Florida.
Amer. Jour. Sci. (5), VIII, 503-508, 2 figs.
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Amer. Jour. Sci. (5), IX, 241-249, 4 figs.
- 1925 B
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- 1925 D
The Florida man.
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- 1925 E
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On the shell heaps of Maine.
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- Loper, S. Ward** 1893 A
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- Lorenz, Ludwig** 1904 A
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- 1904 B
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- Louderback, George Davis** 1907 A
Where mammoths roved. Recent remarkable discoveries in Carson, Nevada.
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- 1924 A
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- 1906 B
Über Variationen am Tuberculum articulare des Kiefergelenks des Menschen und ihre morphologische Bedeutung.
Morphol. Jahrb., XXXIII, 322-353, 16 figs.
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- 1908 B
Das Kiefergelenk der Edentaten und Marsupialier; nebst Mittheilungen über die Kaumuskulatur dieser Thiere.
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Anpassungserscheinungen bei der Verkalkung des Selachierknorpels.
Anat. Anz., XXXV, 1-8, 8 figs.
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Allgemeine und spezielle Bemerkungen über Methode. Inhalt und Wert der Kritik, die Fuchs an meinen Untersuchungen über das Kiefergelenk der Säugetiere geübt hat.
Anat. Anz., XXXVIII, 310-333.
Prefixed is a list of 10 recent papers by Drüner, Fuchs and Lubosch dealing with the subject.
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Was lehrt die Phylogese der Gelenke für die Beurteilung des Kiefergelenkes der Säugetiere?
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- 1926 A
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Untersuchungen zur vergleichenden Segmental-Anatomie.
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Abh. Senckenb. naturf. Ges., VIII, 277-378, pls. i-xiv, 8 text-figs.
- 1875 A
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Abh. Senckenb. naturf. Ges., IX, 369-496, pls. i-xvii.
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On rudimentary metacarpals in *Bison*.
- 1890 B
Description of some bones of Pallas' cormorant (*Phalacrocorax perspicillatus*).
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- 1890 C
The expedition to Funk Island, with observations upon the history and anatomy of the great auk.
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- 1894 A
The bird's foot.
Nat. Sci., V, 208-210, 395-396.
- 1894 B
Notes on the air-sacs and hollow bones of birds.
Nat. Sci., IV, 36-37.
- 1898 E
Occurrence of mammoth remains on the Pribilof Islands.
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- 1900 B
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- 1900 D
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- 1900 E
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- 1900 F
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- Lucas, F. A.—Continued** 1900 G
Description of a new species of fossil fish from the Esmeralda formation.
Rep. U. S. Geol. Surv., XXI, pt. ii, 223-224, pl. xxxi.
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- 1900 H
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- 1901 A
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- 1901 B
Vertebrates from the Trias of Arizona.
Science (n.s.), XIV, 376.
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- 1901 C
The phylogeny of the toothed whales.
Science (n.s.), XIV, 618-619.
- 1901 D
A new dinosaur, *Stegosaurus marshi*, from the Lower Cretaceous of South Dakota.
Proc. U. S. Nat. Mus., XXIII, 591-592, pls. xxiii, xxiv.
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- 1901 E
A flightless auk, *Mancalla californiensis*, from the Miocene of California.
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- 1901 F
The restoration of extinct animals.
Rep. Smithson. Instn. for 1900, 479-492, pls. i-viii, 2 text-figs.
- 1901 G
A fossil, flightless auk.
Science (n.s.), XIII, 428-429.
- 1901 H
Some restorations of dinosaurs.
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The truth about the mammoth.
Rep. Smithson. Instn., for 1899, 353-359,
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- 1901 J
Animals of the past.
8vo., New York, i-xx+1-258 pages, 41 figs.
Review in Science (n.s.), xxxviii, 779-780.
- 1902 A
Paleontological notes. North Amer-
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Science (n.s.), xv, 554-555.
Brief notice in Geol. Centralbl., ix, 581.
- 1902 B
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ica.
New York, D. Appleton Co., 8vo., 1-291
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- 1902 C
The dinosaurs, or terrible lizards.
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- 1902 D
The greatest flying creature, the
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516.
Reprinted in Scient. Amer. Suppl., lv,
22645-22646.
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Science (n.s.), xv, 469.
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name *Omosaurus*.
Science (n.s.), xvi, 435.
Proposes *Hoplitosaurus* for *Stegosaurus*
marshi.
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- 1902 G
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- 1902 H
Clark on the classification of birds.
Auk, xix, 95-96.
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Constructing an extinct monster
from fossil remains.
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crit. Paléozool., viii, 5.
- 1903 B
The great auk.
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Abth. 3, 173.
- 1903 D
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- 1904 B
Paleontological notes.
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- 1904 E
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- 1904 F
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[Idaho] quadrangle.
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- 1906 B
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- 1906 C
 Notes on some recent additions to the exhibition series of vertebrate fossils in the U. S. National Museum.
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- 1906 D
 The penguins.
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- 1907 A
 Momentum in variation.
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 The tusks and size of the northern mammoth.
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- 1908 A
 Is *Alabamornis* a bird?
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- 1908 B
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- 1910 A
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- 1910 B
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- 1911 A
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- 1916 A
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- 1916 B
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 Zur Bildung des Brustbeins und Schultergürtels der Vögel.
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- Lütken, Christian** 1868 C
 Om Ganoidernes Begraendsning og Inddeling.
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- 1874 A
 Sur les différences dans la dentition que présentent, selon le sexe, les raies (*Raja*) qui habitent les côtes du Danemark.
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- 1881 A
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- 1904 A
 Fossil footprints of the Jura-Trias of North America.
 Mem. Boston Soc. Nat. Hist., v, 461-557, pl. lxxii, 34 text-figs.
 An abstract of this paper by its author is found in the Amer. Jour. Sci. (4), xvii, 402-405. See also abstract in Geol. Centralbl., vii, 619.
- 1904 B
 Note on the probable footprints of *Stegomus longipes*.
 Amer. Jour. Sci. (4), xvii, 381-382, 1 text-fig.
 Abstract in Geol. Centralbl., vii, 427.

- Lull, Richard S.—Continued** 1904 C
Adaptations to aquatic, arboreal, fossorial and cursorial habits in mammals. IV: Cursorial adaptations.
Amer. Naturalist, xxxviii, 1-11.
Abstract in Neues Jahrb. Min. Geol. Pal., 1906, I, Ref., 138-139.
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- 1904 D
Nature's hieroglyphics.
Pop. Sci. Month., LXVI, 139-149, 7 figs.
Abstract in Geol. Centralbl., IX, 582.
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- 1905 A
Restoration of the horned dinosaur *Diceratops*.
Amer. Jour. Sci. (4), XX, 420-422, pl. xiv.
Abstracts in Geol. Centralbl., VIII, 378; XI, 108; Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 143; Nature, LXXIII, 205.
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- 1905 B
Restoration of the titanotheres *Megacerops*.
Amer. Naturalist, xxxix, 419-424, 3 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 173.
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- 1905 C
Footprint interpretation.
Science (n.s.), XXI, 299.
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- 1905 D
Megacerops tyleri, a new species of titanotheres from the Bad Lands of South Dakota.
Jour. Geol., XIII, 443-456, pls. iii, iv, 2 text-figs.
Abstracts in Geol. Centralbl., VIII, 378; Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 173.
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- 1906 A
A new name for the dinosaurian genus *Ceratops*.
Amer. Jour. Sci. (4), XXI, 144.
Abstracts in Geol. Centralbl., VIII, 378; Nature, LXXIII, 1906, 422; Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 142.
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- 1906 B
Volant adaptation in vertebrates.
Amer. Naturalist, XL, 537-566, 14 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 122-123; Geol. Centralbl., XI, 425; Nature, London, LXXIV, 415.
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- 1907 A
The evolution of the horse family, as illustrated in the Yale collections.
Amer. Jour. Sci. (4), XXIII, 161-182, 16 text-figs.
Abstracts in Geol. Centralbl., XI, 472; Rev. crit. Paléozoöl., XI, 220; Sci. Progress, II, 510.
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- Lull, Richard S.—Continued** 1907 B
Phylogeny, taxonomy, distribution, habits and environment of the *Ceratopsia*.
Mon. U. S. Geol. Surv., XLIX, 159-198; 295-300; pls. i-li, text-figs. 121-125.
Abstracts in Rev. crit. Paléozoöl., XIII, 76; Amer. Jour. Sci. (4), XXVI, 98-99; Jahresber. Anat. Entwickl. (N.F.), XIV, pt. 3, 160.
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- 1908 A
The evolution of the elephant.
Amer. Jour. Sci. (4), XXV, 169-212, figs. 1-27, 4 charts.
Notes in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 136; Rev. crit. Paléozoöl., XII, 235.
Abstracts in Geol. Centralbl., XIII, 203; Jahresber. Anat. Entwickl. (N.F.), XIV, pt. 3, 162.
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- 1908 B
The cranial musculature and the origin of the frill in the ceratopsian dinosaurs.
Amer. Jour. Sci. (4), XXV, 387-399, pls. i-iii, 10 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 450; Nature, LXXVIII, 109; Sci. Progress, III, 460; Rev. crit. Paléozoöl., XIII, 10-11.
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- 1908 C
A comparative study of the musculature of the chameleon and a cheilonian.
Science (n.s.), XXVII, 255.
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- 1909 A
The evolution of the elephant.
Rep. Smithsonian. Instn. for 1908, 641-675, pls. i, ii, 25 text-figs., 4 charts.
Abstract in Sci. Progress, IV, 663.
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- 1909 B
A four-horned pelycosaurian from the Permian of Texas.
Amer. Jour. Sci. (4), XXVII, 93.
Review of W. D. Matthew's paper under above title (Matthew, W. D., 1908 B).
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- 1910 A
Dinosaurian distribution.
Amer. Jour. Sci. (4), XXIX, 1-39, 10 text-figs.
The paper is followed by a list of works on the *Dinosauria*.
Abstracts in Geol. Centralbl., XV, 311; Nature, London, LXXXV, 1900, 285; Sci. Progress, V, 677-678; Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 299; Rev. crit. Paléozoöl., XIV, 175; Nature, LXXXII, 437.

- Lull, Richard S.—Continued 1910 B
 Armor of *Stegosaurus*.
 Amer. Jour. Sci. (4), xxix, 201-210, 11 text-figs.
 Abstracts in Geol. Centralbl., xv, 311; Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 289; Rev. crit. Paléozool., xiv, 174; Nature, lxxxviii, 137; Sci. Progress, v, 681.
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- 1910 C
Stegosaurus unguatus Marsh, recently mounted at the Peabody Museum of Yale University.
 Amer. Jour. Sci. (4), xxx, 361-377, pl. ii, 10 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 320; Geol. Centralbl., xvi, 218; Sci. Progress, v, 681; Rev. crit. Paléozool., xv, 147-149.
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- 1910 D
 Relation of embryology and vertebrate paleontology.
 Pop. Sci. Month. lxxvii, 150-153.
 Abstracts in Nature, lxxxiv, 211; Rev. crit. Paléozool., xxi, 42.
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- 1911 A
 Note on the parietal crest of *Centro-saurus apertus* and a proposed new name for *Stereocephalus tutus*; by Lawrence M. Lambe.—A review.
 Amer. Jour. Sci. (4), xxxi, 339.
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- 1911 B
 The Reptilia of the Arundel formation.
 Maryland Geol. Surv. Lower Cretaceous, 173-178.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 146-147; Geol. Centralbl., xviii, 523; Rev. crit. Paléozool., xviii, 1.
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- 1911 C
 Systematic paleontology of the Lower Cretaceous deposits of Maryland. Dinosauria.
 Maryland Geol. Surv. Lower Cretaceous, 183-211, pls. xi-xx.
 Abstracts in Geol. Centralbl., xvii, 562-567; xviii, 515; Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 121; Rev. crit. Paléozool., xviii, 2.
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- 1912 A
 Symposium on ten years' progress in vertebrate paleontology. Cretaceous dinosaurs.
 Bull. Geol. Soc. Amer., xxiii, 208-212.
 For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Hay, Merriam, Dean, Eastman, Osborn, Williston and Sinclair.
 Abstract in Rev. crit. Paléozool., xvii, 73.
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- Lull, Richard S.—Continued 1912 B
 The evolution of the Ceratopsia.
 Proc. Internat. Zool. Congr., vii, Boston, 1907, 771-777.
 Reprints were evidently issued in 1910, before the complete volume.
 Abstracts in Nature, lxxxiv, 1910, 89; Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 301; Rev. crit. Paléozool., xv, 154-155.
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- 1912 C
 The armored dinosaur *Stegosaurus unguatus*, recently restored at Yale University.
 Verh. internat. Zool.-Kongr., viii, Graz, 1910, 672-681, 4 text-figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 148.
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- 1912 D
 The life of the Connecticut Trias.
 Amer. Jour. Sci. (4), xxxiii, 397-422, 5 figs.
 There is a list of the fishes from Eastman, C. R., 1911 A; also a bibliography of 13 titles.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, 120; Geol. Centralbl., xviii, 559; Rev. crit. Paléozool., xvii, 77.
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- 1913 A
 The Yale collection of fossil horses.
 Coll. Yale Univ., No. 1, 1-12, 11 text-figs.
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- 1913 B
 The Yale expedition of 1912.
 Bull. Geol. Soc. Amer., xxiv, 117.
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- 1914 A
 Fossil dolphin from California.
 Amer. Jour. Sci. (4), xxxvii, 209-220, pl. viii, 7 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, I, Ref., 137-138; Geol. Zentralbl., xxi, 238; Nature xcv, 355.
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- 1914 B
 Note on the Farmington [Conn.] specimen [of *Mammot americanum*].
 Amer. Jour. Sci. (4), xxxvii, 329-330.
 Abstracts in Rev. crit. Paléozool., xviii, 153; Bull. Geol. Soc. Amer., xxv, 143.
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- 1914 C
 New mastodon find in Connecticut.
 Bull. Geol. Soc. America, xxv, 143.
 A brief abstract.
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- 1914 D
 Rulers of the Mesozoic.
 Yale Review (n.s.), III, 352-363.
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- 1914 E
 Elephants and their progenitors.
 Sci. Conspectus, iv, 61-70, 2 pls., 8 figs.

- Lull, Richard S.—Continued** 1915 A
Triassic life of the Connecticut valley.
Bull. Geol. and Nat. Hist. Surv. Conn., xxiv, 1-285, 12 plates, 4 maps, 126 figures.
There are presented lists of the species of vertebrates found at each of 42 localities.
Abstract in Nature, London, xcvi, 657; Rev. crit. Paléozool., xx, 90.
For Lull's list of species see Abel, O., 1926 B, 25-27.
- 1915 B
A Pleistocene ground sloth, *Mylodon harlani*, from Rock Creek, Texas.
Amer. Jour. Sci. (4), xxxix, 327-385, 16 text-figs.
Abstracts in Rev. crit. Paléozool., xx, 88; Geol. Zentralbl., xxv, 271.
- 1915 C
Sauropoda and Stegosauria of the Morrison of North America compared with those of Europe and eastern Africa.
Bull. Geol. Soc. Amer., xxvi, 323-334.
Abstract in Rev. crit. Paléozool., xx, 3.
- 1915 D
The mammals and horned dinosaurs of the Lance formation of Niobrara County, Wyoming.
Amer. Jour. Sci. (4), xl, 319-348, 5 text-figs.
Abstract in Geol. Zentralbl., xxv, 272.
- 1915 E
Ant-hill fossils.
Pop. Sci. Month., 1915, 236-243, 4 text-figs.
- 1915 F
Dinosaurs, the rulers of the Mesozoic.
Schuchert and Pirsson's "Text-book of Geology," 831-843, pls. xxxi-xxxiii.
- 1915 G
Review of Williston's "Water reptiles of the past and present."
Science (n.s.), xli, 391-392.
- 1917 A
On the functions of the "sacral brain" in dinosaurs.
Amer. Jour. Sci. (4), xliv, 471-477.
Abstract in Rev. crit. Paléozool., xxiv, 88.
- 1917 B
Organic evolution. A text-book.
8vo., i-xviii+1-729 pages, pls. i-xxx, 253 text-figs.
Abstract in Rev. crit., Paléozool., xxii, 51-55. Brief review in Jour. Geol., xxvi, 285.
- Lull, Richard S.—Continued** 1917 C
Barosaurus: A gigantic sauropod dinosaur.
Bull. Geol. Soc. Amer., xxviii, 214 (abstract).
- 1917 D
The Triassic fauna and flora of the Connecticut valley.
Bull. U. S. Geol. Surv., dxcvii, 105-127, pls. iii, iv.
- 1917 E
Horned artiodactyl from the Tertiary of Nebraska.
Bull. Geol. Soc. Amer., xxviii, 211.
- 1917 F
Brontotherium: A new mount in the Yale Museum.
Bull. Geol. Soc. Amer., xxviii, 214 (abstract).
- 1918 A
Fossil footprints from the Grand Canyon of the Colorado.
Amer. Jour. Sci. (4), xlv, 337-346, pls. i-iii, 3 text-figs.
Abstracts in Rev. crit. Paléozool., xxii, 107; Geol. Zentralbl., xxv, 43.
- 1918 B
The development of vertebrate paleontology.
Amer. Jour. Sci. (4), xlvi, 193-221.
- 1918 C
The pulse of life.
Chap. iv, 109-146, figs. 14-30, of "The Evolution of the Earth and its Inhabitants." 8vo., New Haven, 1918.
- 1919 A
Samuel Wendell Williston.
Amer. Jour. Sci. (4), xlvi, 220-224.
An obituary notice.
- 1919 B
Review of papers by C. W. Gilmore (Gilmore, C. W., 1914 A and 1918 C).
Amer. Jour. Sci. (4), xlvi, 236-238.
- 1919 C
The sauropod dinosaur *Barosaurus* Marsh.
Mem. Conn. Acad. Sci., vi, 1-42, pls. i-vii, 10 text-figs.
Abstracts in Rev. crit. Paléozool., xxiv, 147; Neues Jahrb. Min. Geol. Pal., 1922, i, Ref., 253; Nature, cv, 117.
- 1920 A
New Tertiary artiodactyls.
Amer. Jour. Sci. (4), l, 83-130, pl. i, 25 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388; Rev. Géol. et Sci. conn., iv, 1923, 98; Geol. Zentralbl., xxvi, 505; Nature, cvi, 189.
Review in Rev. crit. Paléozool., xxvii, 16.

Lull, Richard S.—Continued 1920 B
An Upper Carboniferous footprint
from Attleboro, Massachusetts.

Amer. Jour. Sci. (4), L, 234-236, 1 fig.
Abstract in Rev. Géol. et Sci. conn., iv,
1923, 95; Nature, cviii, 482.
Review in Rev. crit. Paléozool., xxvii, 13.

1921 A
The Cretaceous armored dinosaur
Nodosaurus textilis Marsh.

Amer. Jour. Sci. (5), I, 98-126, pls. i-iv,
7 text-figs.

The bibliography records 16 titles.
Abstracts in Neues Jahrb. Min. Geol. Pal.,
1922, I, Ref., 254; Rev. Géol. et Sci. conn., iv,
1923, 95; Geol. Zentralbl., xxviii, 507.

Review in Rev. crit. Paléozool., xxvii, 13.

1921 B
Fauna of the Dallas sand pits.

Amer. Jour. Sci. (5), II, 159, 176, figs. 1-5.
Abstract in Rev. Géol. et Sci. conn., iv,
1923, 99; Geol. Zentralbl., xxvii, 184.

Review in Rev. crit. Paléozool., xxvii, 17.

1921 C
New camels in the Marsh collection.

Amer. Jour. Sci. (5), I, 392-404, figs. 1-5.
Abstracts in Neues Jahrb. Min. Geol.
Pal., 1921, II, Ref., 388; Rev. Géol. et Sci.
conn., iv, 1923, 99; Geol. Zentralbl., xxvii,
29.

Review in Rev. crit. Paléozool., xxvii, 17.

1922 A
Restoration of *Blastomeryx marshi*.

Amer. Jour. Sci. (5), III, 158-161, 2 figs.
Abstracts in Rev. Geol. et Sci. conn., v,
111; Rev. crit. Paléozool., xxviii, 6, 1924;
Geol. Zentralbl., xxviii, 153; Neues Jahrb.
Min. Geol. Pal., 1923, I, 317-318.

1922 B
Primitive Pecora in the Yale Mu-
seum.

Amer. Jour. Sci. (5), IV, 111-119, 1 fig.
There is a bibliography of 9 titles. Ab-
stracts in Rev. Géol. et Sci. conn., v, 110-
111; Rev. crit. Paléozool., xxvii, 214; xxviii,
6; Neues Jahrb. Min. Geol. Pal., 1924, I,
414; Geol. Zentralbl., xxix, 221.

1922 C
Variations or specific distinctions:
Which?
Bull. Geol. Soc. Amer., xxxiii, 599, 604.

1922 D
Abstract of Branislav Petronievics'
"Über das Becken, den Schultergürtel,
etc., der Londoner *Archæopteryx*."
Amer. Jour. Sci. (4), III, 382-383.

Lull, Richard S.—Continued 1924 A
Dinosaurian climatic response.

Chapter VII of "*Organic adaptation to en-
vironment*." New Haven. Yale University
Press. Pages 225-279, figs. 22-34, and chart.
The bibliography comprises 40 titles.
Abstract in Geol. Zentralbl., xxxii, 507.

1924 B
Samuel Wendell Williston, 1852-
1918.

Mem. Nat. Acad. Sci., xvii, 115-141,
portrait.

Pages 136-141 are occupied by lists of his
scientific papers. Of these 12 are concerned
with geology; 9 with anthropological ques-
tions, 138 with vertebrate palæontology.

1926 A
Early fossil hunting in the Rocky
Mountains.

Nat. Hist., xxvi, 455-462, 5 figs.

1926 B
Yale's great new museum of evolu-
tion.

Scient. Amer., Oct. 1926, 278-279, illus-
trations.

1927 A
A new footprint locality.

Amer. Jour. Sci. (5), xiv, 48, 49, fig. 1.

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Lund, Peter Wilhelm 1838 A
[A brief report on the investiga-
tions of the fossil mammals of the
caves of Minas Geraes, Brazil.]

Danske Vidensk. Selsk. Forh. Overs., 1838,
7-15.

1839 C
[A brief report on further investi-
gations of the fossil mammals of the
caves of Minas Geraes, Brazil.]

Danske Vidensk. Selsk. Forh. Overs., 1839,
19-23.

1841 A
Blik paa Brasiliens Dryeverden för
sidste Jordomvaeltning.

Danske Vid. Selsk. Afhandl., viii, 27-57,
61-86, 217-296, pls. i-xxvii.

Lurje, Mira 1906 A
Über die Pneumatisation des Tau-
benschädels.

Anat. Hefte, Arb., xxxi, 1-61, pls. i-x,
1 fig.

The bibliography includes 11 titles.

Luthe, Walter 1924 A
Ueber die Fusswurzelknochen der
Fischottern.

Arch. Naturges, xc, Abt. A, Heft 4, 59-
141, pls. i-vii, 7 text-figs.

The bibliography presents 16 titles.

- Luther, A.** 1909 A
Beiträge zur Kenntnis von Muskulatur und Skelett des Kopfes des Haies *Stegostoma tigrinum* Gm. und der Holocephalen; mit einem Anhang über die Nasenrinne.
There is a bibliography of 73 titles.
- 1913 A
Beiträge zur Kenntnis des Kopf-skelets der Knorpelganoiden.
Acta. Soc. Sci. Fenn., xli, art. 8, 1-26, 10 text-figs.
A bibliography of 40 titles is appended.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 77-80.
- 1913 B
Ueber die vom *N. trigeminus* versorgte Muskulatur der Ganoiden und Dipneusten.
Acta Soc. Sci. Fenn., xli, art. 9, 1-72, 1 pl., 28 text-figs.
There is appended a bibliography of 77 titles.
- Lwoff, W.** 1884 A
Beiträge zur Histologie der Haut der Reptilien.
Bull. Soc. Natural. Moscou, lx, 313-334, pl. ix.
- Lydekker, R.** 1879 A
Elementary sketch of the osteology of birds.
Stray Feathers, Calcutta, viii, 1-36, 4 pls.
- 1882 B
Siwalik Camelopardalidæ.
Mem. Geol. Surv. India. Palæont. Indica (ser. 10), ii, 99-142 (33-44), pls. xvi-xxii.
- 1884 C
See Hay, O. P., 1902 A, p. 147.
Reviewed in Ann. Mag. Nat. Hist. (5), xvi, 66-72.
- 1885 F
The labyrinthodont from the Bijori Group.
Palæont. Ind. (4), i, pt. 4, 1-16, pls. l-lv.
- 1885 G
The Reptilia and Amphibia of the Maleri and Denwa groups.
Palæont. Ind. (4), i, pt. 5, 1-38, pls. i-vi.
- 1886 F
On the occurrence of the crocodilian genus *Tomistoma* in the Miocene of the Maltese Islands.
Quart. Jour. Geol. Soc., xlii, 20-22, pl. ii.
- 1886 G
M. L. Dollo on new chelonians from the Eocene of Belgium.
Geol. Mag. (3), iii, 521-523.
- Lydekker, R.—Continued** 1887 B
The Cetacea of the Suffolk Crag.
Quart. Jour. Geol. Soc., xliii, 7-18, pl. ii, 2 text-figs.
- 1887 C
Note on the Hordwell and other crocodilians.
Geol. Mag. (3), iv, 307-312.
- 1887 D
Description of a jaw of *Hyotherium* from the Pliocene of India.
Quart. Jour. Geol. Soc., xliii, 19-22, 1 fig.
- 1887 E
On certain dinosaurian vertebræ from the Cretaceous of India and the Isle of Wight.
Quart. Jour. Geol. Soc., xliii, 156-160, 1 fig.
- 1888 F
Note on the nomenclature of three genera of fossil Mammalia.
Ann. Mag. Nat. Hist. (6), i, 384.
- 1889 M
Preliminary notice of new fossil Chelonia.
Ann. Mag. Nat. Hist. (6), iii, 53-54.
- 1889 N
Note on a chelonian humerus from the Middle Eocene of Bracklesham.
Proc. Geol. Assoc., xi, 177-179.
- 1891 A
Catalogue of the fossil birds in the British Museum.
London, i-xxvii+1-368 pages, 75 figs.
Review in Geol. Mag. (3), viii, 378-381.
- 1892 C
On zeuglodont and other cetacean remains from the Tertiary of the Caucasus.
Proc. Zool. Soc. Lond., 1892, 558-564, pls. xxxvi-xxxviii.
- 1893 F
Note on the coracoidal element in adult sloths, with remarks on its homology.
Proc. Zool. Soc. Lond., 1893, 172-174, 3 text-figs.
- 1894 B
The La Plata Museum.
Nat. Sci., iv, 26-35; 117-128.
- 1896 C
A hand-book to the Marsupialia and Monotremata.
Lloyd's Natural History Ser. 8vo., i-xvi+1-320 pages, 38 colored plates. The same published in 1894 formed a part of "Allen's Natural History." London.
Notice of in Nat. Sci., v, 135.

- Lydekker, R.—Continued** 1896 D
A handbook to the Carnivora. Pt. I: Cats, civets and mongooses.
London, i-viii+1-312 pages, pls. i-xxxii.
Edited by R. Bowdler Sharpe. Part of "Lloyd's Natural History Series."
- 1896 E
Recent discoveries in avian palæontology.
Sci. Progress, v, 398-416.
The bibliography presents 36 titles.
- 1898 C
Recent and fossil rhinoceroses.
Nature, LIX, 87-88.
Review of Osborn, H. F., 1898 I.
- 1898 D
Wild oxen, sheep and goats of all lands, living and extinct.
4to., London, 1898, i-xv+1-318 pages, 27 pls., 61 text-figs.
- 1899 A
On the skull of a shark-toothed dolphin from Patagonia.
Proc. Zool. Soc. Lond., 1899, 919-922, 2 figs.
- 1899 B
The dental formula of the marsupial and placental Carnivora.
Proc. Zool. Soc. Lond., 1899, 922-928, pl. lxii.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, I, Ref., 140-141.
- 1901 A
Pterodactyles.
Nature, LXIV, 645-646.
A review of H. G. Seeley's "Dragons of the Air."
- 1901 B
Armour-clad whales.
Nature, LXIV, 652-653.
An article based on Abel's "Ueber die Hautbepanzerung fossiler Zahnwale."
Abstract in Geol. Centralbl., II, 442.
- 1901 C
Some animals exterminated during the nineteenth century.
Nature, LXIII, 252-254.
Abstract in Globus, LXXIX, 180-181.
- 1901 D
Mammoth ivory.
Rep. Smithson. Instn. for 1899, 361-366.
Reprinted from Knowledge, London, in Scient. Amer. Suppl., No. 1228, July 15, 1899.
- 1902 A
How the sabre-toothed tigers killed their prey.
Nature, LXVI, 357-358.
Refers to W. D. Matthew's paper on the subject.
- Lydekker, R.—Continued** 1902 B
A text-book of mammals.
Nature, LXVI, 373-375.
A review of Beddard's work on Mammalia, volume x of the Cambridge Natural History.
- 1903 A
Note on a reindeer skull from Novaia Zemlia.
Proc. Zool. Soc. Lond., 1902, II, 360-362, 1 text-fig.
- 1903 B
The significance of the callosities on the limbs of the Equidæ.
Proc. Zool. Soc. Lond., 1903, 199-203.
- 1903 C
Giant land-tortoises.
Knowledge, XXVI (n.s. XVIII), 54-56, 2 illus.
- 1903 D
The palæontological case for evolution.
Knowledge, XXVI (n.s. XVIII), 73-76; 100-102; 123-126.
- 1903 E
The ancestry of the elephant.
Knowledge, XXVI (n.s. XVIII), 169-172, 3 figs.
- 1904 A
The ancestry of the horse.
Knowledge, XXVI (n.s. XVIII), Pan. 1904, 16-19, 4 figs.
- 1904 B
The ancestry of the camel.
Knowledge, I, 25-28, 5 figs.
- 1904 C
The ancestry of the Carnivora.
Knowledge, I, 61-64, 5 figs.
- 1904 D
The later history of the horse.
Knowledge, I, 171-174, 3 figs.
- 1905 A
Some fossil reptiles.
Knowl. Scient. News (n.s.), II, 304.
- 1905 B
The Connecticut footprints.
Knowl. Scient. News (n.s.), II, 278.
- 1905 C
An extinct sea-lion.
Knowl. Scient. News (n.s.), II, 230.
Refers to *Pontolis magnus* True.
- 1905 D
The lower jaw of mammals.
Knowl. Scient. News (n.s.), II, 230.
- 1905 E
The Carnegie dinosaur.
Knowl. Scient. News (n.s.), II, 134.

- Lydekker, R.—Continued** 1905 F
Fossil marmot burrows.
Knowl. Scient. News (n.s.), II, 134.
- 1906 A
Some rudimentary structures.
Knowl. Scient. News (n.s.), III, 472-475,
4 figs.
- 1906 B
Weights of whales and dinosaurs.
Knowl. Scient. News (n.s.), III, 391.
- 1907 A
Guide to the specimens of the horse
family (Equidæ) exhibited in the De-
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 Bull. Amer. Mus. Nat. Hist., xvi, 281-290, 4 figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 294-296; Geol. Centralbl., iv, 400; Rev. crit. Paléozool., viii, 6-7.
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 Bull. Amer. Mus. Nat. Hist., xix, 197-226, 19 text-figs.
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 Bull. Amer. Mus. Nat. Hist., xix, 227-230, 1 fig.
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 Amer. Mus. Jour., iii, 3-5.
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 Science (n.s.), xix, 892.
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- 1905 C
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 Amer. Mus. Jour., v, 22-59, 27 figs.
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 Amer. Mus. Jour., v, 62-70, 4 figs.
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 Fossil Chrysochloridæ in North America.
 Science (n.s.), xxiv, 786-788.
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 Hypothetical outlines of the continents in Tertiary times.
 Bull. Amer. Mus. Nat. Hist., xxii, 353-383, 7 maps.
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 Geol. Mag. (5), iv, 531-535.
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Osteology of *Blastomeryx* and phylogeny of the American Cervidæ.
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A four-horned pelycosaurian from the Permian of Texas.
Bull. Amer. Mus. Nat. Hist., xxiv, 183-185, 1 fig.
For abstracts see Neues Jahrb. Min. Geol. Pal., 1908, 1, Ref., 285-286; Sci. Progress, iii, 467; Amer. Jour. Sci. (4), xxvii, 93; Geol. Centralbl., xiii, 396.
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- 1908 C
Mammalian migrations between Europe and North America.
Amer. Jour. Sci. (4), xxv, 68-70.
Abstract in Geol. Centralbl., xiii, 394.
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- 1908 D
Revision of the Pelycosauria of North America. By E. C. Case.
Science (n.s.), xxvii, 816-818.
A review of Case, E. C., 1907 E.
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- 1908 E
Allosaurus, a carnivorous dinosaur, and its prey.
Amer. Mus. Jour., viii, 3-5, fig.
Abstracts in Geol. Centralbl., xi, 332; Neues Jahrb. Min. Geol. Pal., 1912, 1, Ref., 139.
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- 1908 F
Completion of *Trachodon* group.
Amer. Mus. Jour., viii, 89.
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- 1908 G
Exhibition of *Orohippus osbornianus*.
Amer. Mus. Jour., viii, 89.
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- 1908 H
Fossil fishes.
Amer. Mus. Jour., viii, 110.
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- 1908 I
Exhibit illustrating the evolution of the horse.
Amer. Mus. Jour., viii, 117-122, 5 text-figs.
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- Matthew, W. D.—Continued 1909 A
Observations upon the genus *Ancondon*.
Bull. Amer. Mus. Nat. Hist., xxvi, 1-7.
Abstracts in Geol. Centralbl., xvi, 220; Rev. crit. Paléozool., xiii, 72; Sci. Progress, iv, 660.
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- 1909 B
Report on skull of *Bison latifrons* in American Museum.
Science (n.s.), xxix, 198.
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- 1909 C
Faunal lists of the Tertiary Mammalia of the West.
Bull. U. S. Geol. Surv., ccclxi, 91-138.
Abstract in Rev. crit. Paléozool., xiii, 147-149.
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- 1909 D
The Carnivora and Insectivora of the Bridger basin, Middle Eocene.
Mem. Amer. Mus. Nat. Hist., ix, 291-567, pls. xlii-lii, text-figs. 1-118.
Abstracts in Amer. Jour. Sci. (4), xxviii, 500; Neues Jahrb. Min. Geol. Pal., 1911, 1, Ref., 503-519; Geol. Centralbl., xv, 217; Rev. crit. Paléozool., xiv, 163-168; Sci. Progress, iv, 654-657, figs. 1, 2.
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- 1909 E
On a skull of *Apternodus*.
Science (n.s.), xxix, 196.
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- 1909 F
Recent purchases of fossil vertebrates.
Amer. Mus. Jour., ix, 68-69.
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- 1909 G
The oldest land reptiles of North America.
Amer. Mus. Jour., ix, 91-95, 5 text-figs.
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- 1910 A
On the skull of *Apternodus* and the skeleton of a new artiodactyl.
Bull. Amer. Mus. Nat. Hist., xxviii, 33-42, pl. vi, 5 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, 1, Ref., 356-358; Geol. Centralbl., xvii, 39; Sci. Progress, v, 665-666; Rev. crit. Paléozool., xiv, 168.
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- 1910 B
On the osteology and relationships of *Paramys*, and the affinities of the Ischyromyidæ.
Bull. Amer. Mus. Nat. Hist., xxviii, 43-72, pls. i-v, 19 text-figs.
Abstracts in Geol. Centralbl., xvii, 38-39; Sci. Progress, v, 668-669; Rev. crit. Paléozool., xiv, 168; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 212.

- Matthew, W. D.—Continued 1910 C**
 The phylogeny of the Felidae.
 Bull. Amer. Mus. Nat. Hist., xxviii, 289-316, 15 text-figs.
 Reviews in Neues Jahrb. Min. Geol. Pal., 1912, I, Ref., 353-356; Geol. Centralbl., xvi, 214-215; Nature, lxxxv, 287; Sci. Progress, v, 666; Rev. crit. Paléozool., xv, 22; Amer. Jour. Sci. (4), xxx, 421-422; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 211.
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- 1910 D**
 The pose of sauropodous dinosaurs.
 Amer. Naturalist, xlv, 547-560.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 323-325; Geol. Centralbl., xvii, 43; Nature, lxxxv, 288; Sci. Progress, v, 679.
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- 1910 E**
 Schlosser on Fayum mammals.
 Amer. Naturalist, xlv, 700-703.
 Abstract in Sci. Progress, v, 662-663.
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- 1910 F**
 The Tyrannosaurus.
 Amer. Mus. Jour., x, 3-8, 6 figs.
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- 1910 G**
 Patagonia and the Pampas Cenozoic of South America. A critical review of the correlations of Santiago Roth, 1908.
 Ann. N. Y. Acad. Sci., xix, 149-160, pl. xiv.
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- 1910 H**
 The continuity of development.
 Pop. Sci. Month., lxxvii, 473-478.
 Abstracts in Sci. Progress, v, 661; Rev. crit. Paléozool., xviii, 198.
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- 1910 I**
 The new plesiosaur. A great marine reptile of the ancient world.
 Amer. Mus. Jour., x, 246-250, 4 plates.
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- 1911 A**
 Fort Lee dinosaur.
 Amer. Mus. Jour., xi, 28-29.
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- 1911 B**
 The ground sloth group.
 Amer. Mus. Jour., xi, 113-119, 4 figs.
 Abstract in Rev. crit. Paléozool., xvii, 204.
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- 1911 C**
 A tree climbing ruminant.
 Amer. Mus. Jour., xi, 162-163, 1 fig.
 Abstract in Rev. crit. Paléozool., xvii, 200.
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- 1911 D**
 The amphibians of the great coal swamps.
 Amer. Mus. Jour., xi, 197-200, 2 figs.
 Abstract in Rev. crit. Paléozool., xviii, 7, 94.
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- 1911 E**
 Fossil vertebrates—what they teach.
 Amer. Mus. Jour., xi, 246-247.

- Matthew, W. D.—Continued 1912 A**
 Symposium on ten years progress in vertebrate paleontology. African mammals.
 Bull. Geol. Soc. Amer., xxiii, 156-162.
 For the other articles of this symposium see the 1912 papers of Peterson, Gidley, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Osborn, Williston and Sinclair.
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- 1912 B**
 Symposium on ten years progress in vertebrate paleontology. Carnivora and Rodentia.
 Bull. Geol. Soc. Amer., xxiii, 181-187.
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- 1912 C**
 The new four-toed horse skeleton.
 Amer. Mus. Jour., xii, 186, 1 fig.
 Name of the genus and species not given.
 A species of *Eohippus*.
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- 1912 D**
 New dinosaurs for the American Museum.
 Amer. Mus. Jour., xii, 219.
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- 1912 E**
 Facts and theories relating to the ancestry of man.
 Amer. Mus. Jour., xii, 255-256.
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- 1912 F**
 The ancestry of the edentates, as illustrated by the skeleton of *Haplopus*, a Tertiary ancestor of the ground sloths.
 Amer. Mus. Jour., xii, 300-303, figs.
 Reprinted with additions and further illustrations. Pages 1-8, with figs.
 Abstracts in Sci. Progress, viii, 637; Rev. crit. Paléozool., xvii, 201; Nature, xcii, 106.
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- 1912 G**
 Fossil walrus skull from Penobscot Bay.
 Amer. Mus. Jour., xii, 269.
 An unsigned article.
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- 1913 A**
 A zalambdodont insectivore from the Basal Eocene.
 Bull. Amer. Mus. Nat. Hist., xxxiii, 307-314, pls. lx, lxi, 6 text-figs.
 Abstracts in Ann. N. Y. Acad., xxiii, 263; Neues Jahrb. Min. Geol. Pal., 1915, I, Ref., 140; Sci. Progress, viii, 629; Rev. crit. Paléozool., xvii, 199; xxi, 49; Geol. Zentralbl., xxi, 234; Nature, xcii, 106.
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- 1913 B**
 Certain theoretical considerations affecting phylogeny and correlation.
 Bull. Geol. Soc. Amer., xxiv, 283-292, 1 text-fig.
 Abstract in Geol. Centralbl., xx, 701-702; Rev. crit. Paléozool., xvii, 198-199.

- Matthew, W. D.—Continued** 1913 C
American Museum expeditions for fossil vertebrates.
Amer. Mus. Jour., XIII, 286-287.
- 1913 D
The asphalt group of fossil skeletons. The tar-pits of Rancho-La-Brea, California.
Amer. Mus. Jour., XIII, 290-297, 6 plates.
Abstracts in Sci. Progress, VIII, 628; Nature, XCII, 457, 640.
- 1913 E
The laws of nomenclature in paleontology.
Science (n.s.), XXXVII, 788-792.
- 1913 F
Evolution of the horse.
Amer. Mus. Guide leaflet 36, 1-62, 38 figs.
The bibliography presents 29 titles.
- 1913 G
A tiny fossil skull.
Amer. Mus. Jour., XIII, 48.
- 1913 H
Nomenclature in paleontology.
Science (n.s.), XXXVIII, 87-88.
- 1914 A
[Systematic position of the mylodont sloths.]
Bull. Geol. Soc. Amer., XXV, 144.
- 1914 B
Evidence of the Paleocene vertebrate fauna on the Cretaceous-Tertiary problem.
Bull. Geol. Soc. Amer., XXV, 381-402, 3 text-figs.
Abstract in Rev. crit. Paléozool., XX, 38.
- 1914 C
Report of progress in the revision of the Lower Eocene faunas.
Bull. Geol. Soc. Amer., XXV, 144-145.
- 1914 D
New discoveries in the American Eocene.
Rep. Brit. Assoc. Adv. Sci., LXXXIII, Birmingham, 1913, 491.
- 1914 E
Extinct vertebrates.
Rep. Amer. Mus. Nat. Hist., XLV, for 1913, 57-59.
A brief report of the activities of the department of vertebrate palæontology.
- 1914 F
Origin of Argentine wild horses.
Nature, XCII, 661.
- Matthew, W. D.—Continued** 1914 G
Time ratios in the evolution of mammalian phyla. A contribution to the problem of the age of the earth.
Science (n.s.), XL, 232-235.
Abstract in Rev. crit. Paléozool., XXIV, 43.
- 1914 H
Notes on auditory ossicles of rodents.
Bull. Amer. Mus. Nat. Hist., XXXIII, 350-351, 379-380.
- 1914 I
Fossils from Rancho La Brea.
Amer. Mus. Jour., XIV, 46.
An unsigned article.
- 1914 J
The largest known dinosaur. A huge extinct reptile from German East Africa, the largest known quadruped.
Scient. Amer., CXI, 443, 446-447, 1 fig.
- 1914 K
Two new fossil mammals of the Lower Eocene.
Amer. Mus. Jour., XIV, 167.
An unsigned article.
- 1914 L
Discovery of *Moropus* skeletons.
Amer. Mus. Jour., XIV, 269.
- 1914 M
Note on *Felis atrox*.
Nature, XCII, 640.
- 1915 A
Climate and evolution.
Ann. N. Y. Acad. Sci., XXIV, 171-318, 33 figs.
Review in Amer. Jour. Sci. (4), XL, 83-85.
- 1915 B
Mammoths and mastodons.
Amer. Mus. Guide leaflet 43, 1-26, 1 plate, 16 text-figs.
Abstracts in Geol. Zentralbl., XXII, 538; Geol. Mag. (6), III, 128.
- 1915 C
Dinosaurs; with special reference to the American Museum collections.
Amer. Mus. Nat. Hist., Handbook. No. 5, 1-117; 160-162, 1 plate, 40 text-figs.
Abstracts in Rev. crit. Paléozool., XX, 91; Geol. Zentralbl., XXII, 445; Nature, XCVI, 716, fig.
- 1915 D
A revision of the Lower Eocene Wasatch and Wind River faunas. Part I: Order Feræ (Carnivora). Suborder Creodonta.
Bull. Amer. Mus. Nat. Hist., XXXIV, 1-103, 87 text-figs.
Abstract in Nature, XCV, 276.

- Matthew, W. D.—Continued** 1915 E
A revision of the Lower Eocene Wasatch and Wind River faunas. Part II: Order Condylarthra, family Hyposodontidæ.
Bull. Amer. Mus. Nat. Hist., xxxiv, 311-328, 10 text-figs.
- 1915 F
A revision of the Lower Eocene Wasatch and Wind River faunas. Part IV: Entelonychia, Primates, Insectivora (part).
Bull. Amer. Mus. Nat. Hist., xxxiv, 429-483, pl. xv, 52 text-figs.
Abstracts in Nature, xcvi, 236; Rev. crit. Paléozool., xix, 100; xx, 88.
- 1915 G
New discoveries in the lower Eocene mammals.
Ann. N. Y. Acad. Sci., xxiv, 333.
- 1915 H
A new sirenian from the Tertiary of Porto Rico.
Ann. N. Y. Acad. Sci., xxvi, 439.
- 1915 I
Affinities of *Hyoposodus*.
Bull. Geol. Soc. Amer., xxvi, 152.
A brief abstract.
- 1915 J
Reconstruction of the skeleton of *Brachiosaurus*.
Bull. Geol. Soc. Amer., xxvi, 153.
A brief abstract.
- 1915 K
The Tertiary sedimentary record and its problems.
Dana Commem. Lectures. Problems of American Geology, 377-478, 2 pls., 40 figs.
- 1915 L
Report on fossil vertebrates of eastern Texas.
Bull. Geol. Soc. Amer., xxvi, 470-472.
Incorporated in Dumble, E. T., 1915 A.
Same as Matthew, W. D., 1920 E.
- 1916 A
A marsupial from the Belly River Cretaceous. With critical observations upon the affinities of the Cretaceous mammals.
Bull. Amer. Mus. Nat. Hist., xxxv, 477-500, pls. ii-vi, 4 text-figs.
Eodelphis browni is described.
Abstracts in Rev. crit. Paléozool., xxi, 54; Nature, xcvi, 175; Neues Jahrb. Min. Geol. Pal., 1918, Ref., 207-210.
- Matthew, W. D.—Continued** 1916 B
New sirenian from the Tertiary of Porto Rico, West Indies.
Ann. N. Y. Acad. Sci., xxvii, 23-29, 2 figs.
Abstracts in Ann. N. Y. Acad. Sci., xxvi, 439; Rev. crit. Paléozool., xxii, 1.
- 1916 C
Methods of correlation by fossil vertebrates.
Bull. Geol. Soc. Amer., xxvii, 515-524.
Abstract in Rev. crit. Paléozool., xxiv, 44.
- 1916 D
The grim wolf of the tar pits.
Amer. Mus. Jour., xvi, 45-47, 2 figs.
- 1916 E
A reptilian aëronaut. A new skeleton of the giant flying reptile of the Cretaceous period.
Amer. Mus. Jour., xvi, 251-252, 1 fig.
- 1916 F
Scourge of the Santa Monica mountains.
Amer. Mus. Jour., xvi, 469-472, 2 figs.
Refers to *Smilodon californicus*.
- 1916 G
Kunz on *Ivory and the Elephant*.
Amer. Mus. Jour., xvi, 485-495, 13 figs.
A review.
- 1916 H
Supplementary note. [On climate and evolution.]
Ann. N. Y. Acad. Sci., xxvii, 11-15.
Rejoinder to Barbour, T., 1916 A.
- 1916 I
Recent progress in vertebrate palæontology. Mammals.
Science (n.s.), xliii, 107-110.
- 1916 J
The horse and his progenitors.
Sci. Conspectus, vi, 1-14, 9 figs.
- 1916 K
Dinosaurs from Alberta.
Amer. Mus. Jour., xvi, 74-75.
- 1917 A
Absence of the pollex in Perissodactyla.
Bull. Amer. Mus. Nat. Hist., xxxvii, 573-577.
Abstracts in Rev. crit. Paléozool., xxii, 58; Geol. Zentralbl., xxvii, 223.
- 1917 B
A Paleocene bat.
Bull. Amer. Mus. Nat. Hist., xxxvii, 569-571.
Gives a description of *Zanycteris paleocenus* gen. et sp. nov.
Abstracts in Geol. Mag. (6), iv, 516; Rev. crit. Paléozool., xxiv, 91; Geol. Zentralbl., xxvii, 223.

- Matthew, W. D.—Continued 1917 C
 The dentition of *Nothodectes*.
 Bull. Amer. Mus. Nat. Hist., xxxvii, 831-839, pls. xcix-cii.
 Abstracts in Rev. crit. Paléozool., xxv, 8; Geol. Zentralbl., xxvii, 222.
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- 1917 D
 A fossil deer from Argentina. With a discussion of the distribution of various types of deer in North and South America.
 Amer. Mus. Jour., xvii, 207-211, 2 illustrations.
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- 1917 E
 Gigantic *Megatherium* from Florida.
 Bull. Geol. Soc. Amer., xxviii, 212 (abstract).
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- 1917 F
 Duck-billed dinosaurs. Census of fossil skeletons.
 Amer. Mus. Jour., xvii, 419.
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- 1918 A
 Contributions to the Snake Creek fauna; with notes upon the Pleistocene of western Nebraska; American Museum Expedition of 1916.
 Bull. Amer. Mus. Nat. Hist., xxxviii, 183-229, pls. iv-x, 20 text-figs.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 101-103.
 Reviews in Nat. Hist., xix, 732; Rev. crit. Paléozool., xxvii, 19.
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- 1918 B
 A fortunate collector. The discoverer [William Stein] of the giant bird *Diatryma*, which was found in the Bighorn Basin of Wyoming.
 Amer. Mus. Jour., xviii, 388, 3 illustrations.
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- 1918 C
 Generic nomenclatures of the Proboscidea.
 Bull. Geol. Soc. Amer., xxix, 141 (Abstract).
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- 1918 D
 Affinities and phylogeny of the extinct Camelidæ.
 Bull. Geol. Soc. Amer., xxix, 144 (abstract).
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- 1918 E
 Notes on the American Pliocene rhinoceroses.
 Bull. Geol. Soc. Amer., xxix, 153 (abstract).
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- Matthew, W. D.—Continued 1918 F
 The mounted skeleton of *Moropus* in the American Museum.
 A "clawed" ungulate, from the Middle Tertiary of Nebraska.
 Amer. Mus. Jour., xviii, 121-123, 2 figs.
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- 1918 G
 A Tertiary alligator.
 Amer. Mus. Jour., xviii, 503-506, 1 fig.
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- 1918 H
 A revision of the Lower Eocene Wasatch and Wind River faunas. Insectivora (continued), Glires, Edentata.
 Bull. Amer. Mus. Nat. Hist., xxxviii, 565-657, 68 text-figs.
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- 1918 I
 Affinities and origin of the Antillean mammals.
 Bull. Geol. Soc. Amer., xxix, 657-666.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 100-101.
 Review in Rev. crit. Paléozool., xxvii, 18.
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- 1918 J
 Skeletons of Cuban ground sloth in the Havana and American museums.
 Amer. Mus. Jour., xviii, 313, 2 figs.
 Figures *Megalocnus*.
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- 1919 A
 Reply to Mr. Burroughs.
 Nat. Hist., xix, 491-493.
 See Burroughs, J., 1919 A.
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- 1919 B
 Recent discoveries of fossil vertebrates in the West Indies and their bearing on the origin of the Antillean fauna.
 Proc. Amer. Philos. Soc., lviii, 161-181.
 Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 103-105; Geol. Zentralbl., xxvii, 120.
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- 1920 A
 A new genus of rodents from the Middle Eocene.
 Jour. Mamm., i, 163-169.
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- 1920 B
 Flying reptiles.
 Nat. Hist., xx, 73-81, 4 figs.
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- 1920 C
 Three-toed horses. A fossil record that provides direct evidence of evolution.
 Nat. Hist., xx, 473-478.

- Matthew, W. D.—Continued** 1920 D
Canadian dinosaurs.
Nat. Hist., xx, 536-544.
Issued in 1921.
Abstract in Rev. Géol. et Sci. conn., 1923, 105.
Review in Rev. crit. Paléozool., xxvii, 23.
- 1920 E
[Report on east Texas vertebrates.]
Bull. Univ. Texas, No. 1869, 225; 231-233.
- 1921 A
Stehlinius, a new Eocene insectivore.
Amer. Mus. Novit., No. 14, 1-5.
Abstract in Geol. Zentralbl., xxvii, 120.
- 1921 B
Notes on the scientific museums of Europe.
Nat. Hist., xxi, 185-190.
- 1921 C
The Cannonball Lance formation.
Science (n.s.), liv, 27-29.
- 1921 D
Fossil vertebrates and the Cretaceous-Tertiary problem.
Amer. Jour. Sci. (5), ii, 209-227.
Abstract in Geol. Zentralbl., xxvii, 184.
- 1921 E
Ursus and bison.
Nat. Hist., xxi, 598-606, illustrations.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 106.
- 1921 F
Why palæontology?
Nat. Hist., xxi, 639-641, 1 figure.
- 1921 G
Notes—Paleontology.
Nat. Hist., xxi, 658-662, 2 figures.
- 1921 H
A note on the Cernaysian mammal fauna.
Amer. Jour. Sci. (5), i, 509-511.
Contains quotations from Teilhard de Chardin.
- 1922 A
Errors and changes.
In Gregory, W. K., 1922 A, pages xiii-xiv.
- 1922 B
Phyletic relations of Lance vertebrates.
Pan-Amer. Geol., xxxvii, 68-69.
- 1922 C
A superdreadnaught of the animal world.
The armored dinosaur *Palæoscincus*.
Nat. Hist., xxii, 333-342, 6 figs.
- Matthew, W. D.—Continued** 1923 A
Geological occurrence of the *Hesperopithecus* tooth.
Amer. Mus. Novit., No. 53, 11-13.
- 1923 B
Review of Zittel's *Grundzüge der Paläontologie*. II Abt. Vertebrata, Neuarbeitet von F. Broili und Max Schlosser, 1923.
Science (n.s.), lviii, 107-109.
- 1923 C
Recent progress and trends in vertebrate paleontology.
Bull. Geol. Soc. Amer., xxxiv, 401-418.
- 1923 D
Fossil bones on the rock. The fossil quarry near Agate, Sioux County, Nebraska.
Nat. Hist., xxiii, 358-369, 11 figs. Abstract in Nature, cxii, 522.
- 1923 E
Stratigraphy of the Snake Creek fossil quarries and the correlation of the faunas (Abstract).
Bull. Geol. Soc. Amer., xxxiv, 131.
- 1923 F
Fossil vertebrates.
Nat. Hist., xxiii, 520.
- 1924 A
Note on *Serridentinus* Osborn.
Amer. Mus. Novit., cxlviii, 5.
- 1924 B
Fossil horses from the Texas Pliocene.
Nat. Hist., xxiv, 629-631.
- 1924 C
Third contribution to the Snake Creek fauna.
Bull. Amer. Mus. Nat. Hist., l, 59-210, 63 figs.
Abstract in Geol. Zentralbl., xxxii, 376.
- 1924 D
A new link in the ancestry of the horse.
Amer. Mus. Novit. No. 131, 1-2.
- 1924 E
Correlation of the Tertiary formations of the Great Plains.
Bull. Geol. Soc. Amer., xxxv, 743-754, 1 table.
- 1924 F
Vertebrate palæontology. Welcomed home by a dinosaur. Fossil birds from Nebraska.
Nat. Hist., xxiv, 118-120, 1 fig.

- Matthew, W. D.**—Continued 1924 G
Fossil horses from the Texas Pliocene.
Nat. Hist., xxiv, 629-631.
- 1924 H
Vertebrate fossils.
Nat. Hist., xxiv, 726-727.
- 1925 A
Fossil mammals from St. Petersburg, Florida.
Nat. Hist., xxv, 97.
- 1925 B
Blanco and associated formations of northern Texas.
Bull. Geol. Soc. Amer., xxxvi, 221-222.
- 1925 C
The value of palæontology.
Nat. Hist., xxv, 166-168.
- 1925 D
An American fossil giraffe, *Giraffa nebrascensis*, sp. nov.
Bull. Neb. State Mus., i, No. 4, 33-39, figs. 14-20.
- 1925 E
A dissenting opinion.
Proc. Nat. Acad. Sci., xi, art. 12, 751.
In Osborn, H. F., 1925 C.
- 1926 A
Note on rhinoceroses.
Bull. Dept. Geol. Univ. Calif., xvi, 50.
In Stock and Furlong, 1926 A.
- 1926 B
On a new primitive deer and two traguloid genera from the Lower Miocene of Nebraska.
Amer. Mus. Novit., No. 215, 1-8, 3 figs.
- 1926 C
The evolution of the horse. A record and its interpretation.
Quart. Rev. Biol., i, 139-185, 27 figs.
The extensive bibliography is found on pages 178-185.
- 1926 D
Early days of fossil hunting in the high Plains.
Nat. Hist., xxvi, 449-454, 5 figs.
- 1928 A
Xenotherium, an edentate.
Jour. Mamm., ix, 70, 71.
- , and B. Brown 1915 A
Corythosaurus, the new duck-billed dinosaur.
Amer. Mus. Jour., xv, 427-428.
- Matthew, W. D., and B. Brown**—Continued 1922 A
The family Deinodontidae, with notice of a new genus from the Cretaceous of Alberta.
Bull. Amer. Mus. Nat. Hist., xlvi, 367-385, 1 text-fig.
Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 106-107; Geol. Zentralbl., xxviii, 444; Neues Jahrb. Min. Geol. Pal., i, 304-306.
Review in Rev. crit. Paléozool., xxvii, 24.
- 1923 A
Preliminary notices of skeletons and skulls of Deinodontidae from the Cretaceous of Alberta.
Amer. Mus. Novit., No. lxxxix, 1-9, 5 figs.
Review in Rev. crit. Paléozool., xxviii, 169, 1924.
Abstract in Geol. Zentralbl., xxx, 442.
- , and Harold Cook 1909 A
A Pliocene fauna from western Nebraska.
Bull. Amer. Mus. Nat. Hist., xxvi, 361-414, 27 text-figs.
Abstracts in Geol. Centralbl., xv, 649; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 285-288; Amer. Jour. Sci. (4), xxviii, 500-501; Rev. crit. Paléozool., xiv, 9; Sci. Progress, iv, 652.
- 1909 B
Pliocene fauna from western Nebraska.
Science (n.s.), xxix, 196-197.
- , and W. Granger 1915 A
See Matthew, W. D., 1915 D, E, F.
- 1917 A
The skeleton of *Diatryma*, a gigantic bird from the Lower Eocene of Wyoming.
Bull. Amer. Mus. Nat. Hist., xxxvii, 307-326, pls. xx-xxxiii, 1 text-fig.
Abstracts in Bull. Geol. Soc. Amer., xx, 212; Rev. crit. Paléozool., xxv, 56; Geol. Zentralbl., xxvii, 223; Nature, cv, 117; Sci. Progress, xii, 425; Geol. Mag. (6), iv, 469.
- 1917 B
A giant Eocene bird.
Amer. Mus. Jour., xvii, 416-418, 2 figs.
- 1921 A
New genera of Paleocene mammals.
Amer. Mus. Novit., No. 13, 1-7.
Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 106; Geol. Zentralbl., xxvii, 120.
Review in Rev. crit. Paléozool., xxvii, 24.
- 1923 A
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161.
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 A popular account of the tar pools at Rancho La Brea, Calif.
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Bull. Dept. Geol. Univ. Calif., v, 291-304, pl. xxvi, 3 text-figs.
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 The occurrence of strepsicerine antelopes in the Tertiary of northwestern Nevada.
Bull. Dept. Geol. Univ. Calif., v, 319-330, text-figs. 1-7.
 Abstracts in *Neues Jahrb. Min. Geol. Pal.*, 1911, i, 311; *Geol. Centralbl.*, xiv, 439; *Rev. erit. Paléozool.*, xiv, 169; *Amer. Jour. Sci.* (4), xxix, 271; *Sci. Progress*, iv, 660.
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- Merriam, John C.—Continued 1909 D**
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Bull. Dept. Geol. Univ. Calif., v, 391-395.
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Bull. Dept. Geol. Univ. Calif., v, 381-390, pl. xl.
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 Abstracts in *Neues Jahrb. Min. Geol. Pal.*, 1910, i, Ref., 462; *Geol. Centralbl.*, xv, 218; *Rev. erit. Paléozool.*, xiv, 82; *Sci. Progress*, vi, 575.
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- 1910 C
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Bull. Dept. Geol. Univ. Calif., vi, 21-53, pls. i-xii.
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- 1910 D
 The relation of paleontology to the history of man, with particular reference to the American problem.
Pop. Sci. Month., lxxvii, 597-601.
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- 1910 E
 The true story of the Calaveras skull.
Sunset Mag., xxiv, 153-158, 7 illustrations.
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- 1911 A
 Note on a gigantic bear from the Pleistocene of Rancho La Brea.
Bull. Dept. Geol. Univ. Calif., vi, 163-166, figs. 1-3.
 Describes new species *Arctotherium californicum*.
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- 1911 B
 Tertiary mammal beds of Virgin Valley and Thousand Creek in northwestern Nevada. Pt. II: Vertebrate faunas.
Bull. Dept. Geol. Univ. Calif., vi, 199-304, pls. xxxii, xxxiii, 80 text-figs.
 Abstract in *Sci. Progress*, vi, 558.

Merriam, John C.—Continued 1911 C

Notes on the relationships of the marine saurian fauna described from the Triassic of Spitzbergen by Wiman.

Bull. Dept. Geol. Univ. Calif., vi, 317-327, 6 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, ii, 476; Sci. Progress, vi, 574.

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1911 D

Notes on the genus *Desmostylus* of Marsh.

Bull. Dept. Geol. Univ. Calif., vi, 403-412, 11 text-figs.

Abstracts in Geol. Centralbl., xvii, 703; Sci. Progress, vi, 564.

Review in Rev. crit. Paléozool., xvi, 78.

1911 E

A collection of mammalian remains from Tertiary beds on the Mohave Desert.

Bull. Dept. Geol. Univ. Calif., vi, 167-169, pl. xxix.

Abstract in Geol. Centralbl., xvii, 37.

1911 F

The fauna of Rancho La Brea. Pt. I: Occurrence.

Mem. Univ. Calif., i, 197-213, pls. xix-xxiii, 1 text-fig.

Review in Rev. crit. Paléozool., xvi, 83.

1912 A

Recent discoveries of Carnivora in the Pleistocene of Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., vii, 39-46, 10 text-figs.

Abstracts in Geol. Centralbl., xix, 442; Sci. Progress, viii, 5.

1912 B

Symposium on ten years progress in vertebrate paleontology. Marine reptiles.

Bull. Geol. Soc. Amer., xxiii, 221-223.

For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Dean, Eastman, Osborn, Williston and Sinclair.

1912 C

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Mem. Univ. Calif., i, 215-272, pls. xxiv-xxviii, 43 text-figs.

Abstracts in Geol. Centralbl., xix, 400; Sci. Progress, viii, 5; Rev. crit. Paléozool., xvii, 4.

Merriam, John C.—Continued 1913 A

Tapir remains from late Cenozoic beds of the Pacific Coast region.

Bull. Dept. Geol. Univ. Calif., vii, 169-175, 2 text-figs.

Abstracts in Geol. Centralbl., xx, 703; Nature, xcii, 514.

1913 B

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Bull. Dept. Geol. Univ. Calif., vii, 305-323, text-figs. 1-11.

Abstracts in Geol. Centralbl., xx, 703; Rev. crit. Paléozool., xvii, 202.

1913 C

A peculiar horn or antler from the Mohave Miocene of California.

Bull. Dept. Geol. Univ. Calif., vii, 335-339, 4 text-figs.

Abstract in Rev. crit. Paléozool., xx, 43.

1913 D

Notes on the canid genus *Tephrocyon*.

Bull. Dept. Geol. Univ. Calif., vii, 359-372, 16 text-figs.

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1913 E

Vertebrate fauna of the Orindan and Siestan beds in middle California.

Bull. Dept. Geol. Univ. Calif., vii, 373-385, 9 text-figs.

Abstracts in Rev. crit. Paléozool., xx, 42; Geol. Zentralbl., xxi, 38.

1913 F

Preliminary report on the horses of Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., vii, 397-418, 14 text-figs.

Abstracts in Rev. crit. Paléozool., xix, 10; L'Anthrop. Paris, xxvi, 1915, 567; Geol. Zentralbl., xxi, 233.

1913 G

New anchitheriine horses from the Tertiary of the Great Basin area.

Bull. Dept. Geol. Univ. Calif., vii, 419-434, 5 text-figs.

Abstracts in Rev. crit. Paléozool., xix, 8; Geol. Zentralbl., xxi, 233.

1913 H

New protohippine horses from Tertiary beds on the western border of the Mohave Desert.

Bull. Dept. Geol. Univ. Calif., vii, 435-441, 4 text-figs.

Abstracts in Rev. crit. Paléozool., xix, 9; Geol. Zentralbl., xxi, 234.

Merriam, John C.—Continued 1914 A
The occurrence of Tertiary mammalian remains in northeastern Nevada.
Bull. Dept. Geol. Univ. Calif., VIII, 275-281, 3 text-figs.

Abstracts in Rev. crit. Paléozool., XX, 42;
Geol. Zentralbl., XXIX, 472.

1914 B

Preliminary report on the discovery of human remains in an asphalt deposit at Rancho La Brea.

Science (n.s.), XL, 198-203.

1914 C

Correlation between the Tertiary of the Great Basin and that of the marginal marine province in California.

Science (n.s.), XL, 643-645.

1914 D

Vertebrate fossils found in region about San Francisco, California.

Folio U. S. Geol. Surv., San Francisco, CXCIII, 13-15.

1914 E

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Jour. Geol., XXII, 818.

1914 F

The Brea maid.

Bull. So. Calif. Acad. Sci., XIII, 27-29.

1914 G

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Bull. Geol. Soc. Amer., XXV, 156 (Abstract).

1915 A

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Bull. Dept. Geol. Univ. Calif., IX, 1-8, 5 text-figs.

Abstracts in Rev. crit. Paléozool., XXI, 86;
Geol. Zentralbl., XXIX, 473.

1915 B

Remains of land mammals from marine Tertiary beds in the Tejon Hills, California.

Bull. Dept. Geol. Univ. Calif., VIII, 283-288, 7 text-figs.

Abstract in Rev. crit. Paléozool., XX, 42.

1915 C

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Bull. Dept. Geol. Univ. Calif., VIII, 377-382, pl. xli, 3 text-figs.

Abstracts in Rev. crit. Paléozool., XX, 42;
Geol. Zentralbl., XXIX, 443.

Merriam, John C.—Continued 1915 D

New horses from the Miocene and Pliocene of California.

Bull. Dept. Geol. Univ. Calif., IX, 49-58, 12 text-figs.

Abstracts in Rev. crit. Paléozool., XXI, 86;
Geol. Zentralbl., XXIX, 473.

1915 E

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Issued also as a reprint of pages 1-44.

1915 F

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Pop. Sci. Month., LXXXVI, 245-264, 11 text-figs.

1915 G

Significant features in the history of life on the Pacific coast.

Nature and science on the Pacific coast, San Francisco, 8vo., i-xii+1-302 pages, with maps, plates, and text-figs. The article cited occupies pages 88-103.

1915 H

Relation of the Tertiary geological scale of the Great Basin to that of the Pacific coast marginal province.

Bull. Geol. Soc. Amer., XXVI, 136-137.

A brief abstract.

1916 A

Tertiary vertebrate fauna from the Cedar Mountain region of western Nevada.

Bull. Dept. Geol. Univ. Calif., IX, 161-198, pl. viii, 48 text-figs.

Abstracts in Rev. crit. Paléozool., XXI, 90;
Geol. Mag. (6), III, 284.

1916 B

Relationship of *Equus* to *Pliohippus* suggested by characters of a new species from the Pliocene of California.

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 Relationships of Pliocene mammalian faunas from the Pacific coast and Great Basin provinces of North America.
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- 1909 G
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Science (n.s.), xxxii, 721.
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Kansas Univ. Sci. Bull., v, 257-273, pls. lv-liv, 1 text-fig.
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559; Rev. crit. Paléozool., xvii, 78.

1912 B
An American Jurassic frog.

Amer. Jour. Sci. (4), xxxiv, 286-288.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1913, I, Ref., 527; Geol. Centralbl., xix, 567;
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xvii, 78; Nature, xc, 139, 599.

1912 C
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Science (n.s.), xxxv, 377-378.

1912 D
The Pennsylvanian Amphibia of the
Mazon Creek, Illinois, shales.

Kansas Univ. Sci. Bull., vi, 323-359, pls.
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Abstract in Geol. Zentralbl., xxi, 39.

1912 E
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order Diplocaulia.

Jour. Morphol., xxiii, 31-39, pls. i, ii.

There is a bibliography of 18 titles.

Abstract in Neues Jahrb. Min. Geol. Pal.,
1912, II, Ref., 150-151.

1913 A
Some recent advances in vertebrate
palæontology.

Amer. Naturalist, xlvii, 183-192, 248-256.

1913 B
Vertebrate footprints in the Lower
Permian of Kansas.

Amer. Jour. Sci. (4), xxxv, 31-33, 1 fig.

Abstract in Geol. Centralbl., xx, 146.

No name is given to these footprints.

1914 A
A list of the described species of
fossil Amphibia.

Kansas Univ. Sci. Bull., ix, 13-28.

1914 B
The fossil frogs of North America.

Amer. Jour. Sci. (4), xxxviii, 531-536, 2
text-figs.

Moodie, R. L.—Continued 1915 A
A Coal Measures amphibian with an
osseous tarsus.

Amer. Jour. Sci. (4), xxxix, 509-512, 2
text-figs.

Abstracts in Rev. crit. Paléozool., xxiv,
87; Geol. Zentralbl., xxv, 468.

1915 B
Some methods of studying fossil
Amphibia embedded in coal.
Kansas Univ. Sci. Bull., ix, 187-193, pl.
L, 3 text-figs.

1915 C
A remarkable microsauro from the
Coal Measures of Ohio.

Science (n.s.), xli, 34-35.

Abstract in Rev. Géol. et Sci. conn., iv,
1923, 109.

Review in Rev. crit. Paléozool., xxvii, 26.

1915 D
A sphenoidal sinus in the dinosaurs.
Science (n.s.), xli, 288-289.
Abstract in Rev. Géol. et Sci. conn., iv,
1923, 109.

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1915 E
The scaled Amphibia of the Coal
Measures.
Science (n.s.), xli, 463-464.

1915 F
The migrations and geographic dis-
tribution of the fossil Amphibia.

Amer. Jour. Sci. (4), xl, 186-190, 1 map.

1915 G
Some recent studies on fossil Am-
phibia.

Amer. Naturalist, xlix, 369-376.

Appended is a bibliography of 16 titles.

1915 H
The Coal Measures Amphibia and
the Crossoptergia.

Amer. Naturalist, xlix, 637-644.

There is a bibliography of 12 titles.

Abstract in Geol. Mag. (6), iii, 35.

1915 I
A new fish brain from the Coal
Measures of Kansas, with a review of
other fossil brains.

Jour. Comp. Neur., xxv, 135-181, 19 figs.

The bibliography presents titles of 50
papers.

1915 J
A further contribution to a knowl-
edge of the lateral line system in
extinct Amphibia.

Jour. Comp. Neur., xxv, 317-328, 7 figs.

There is a bibliography of 10 works.

- Moodie, R. L.—Continued** 1916 A
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Publ. Carnegie Instn. Wash., No. 238, i-x+1-222 pages, pls. i-xxvi, 43 text-figs.
Pages 202-217 are occupied by a bibliography consisting of 645 titles.
Abstracts in Nature, xcvi, 356; Amer. Jour. Sci. (4), xlii, 502.
- 1916 B
Bacteriologic and pathologic evidences in past geologic ages.
Trans. Chicago Pathol. Soc., 1916, 84-88.
- 1916 C
Two caudal vertebræ of a sauro-podous dinosaur exhibiting a pathological lesion.
Amer. Jour. Sci. (4), xli, 530-531, 1 fig.
Abstract in Geol. Zentralbl., xxv, 181.
- 1916 B
The structure and growth of the plesiosaurian propodial.
Jour. Morphol., xxvii, 401-410, pl. I, 6 text-figs.
The bibliography presents 9 titles.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 109-110.
Review in Rev. crit. Paléozool., xxvii, 27.
- 1916 E
On the sinus paranasales of two early Tertiary mammals.
Jour. Morphol., xxviii, 135-144, 5 figs.
There is a list of 10 works consulted.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 109.
Review in Rev. crit. Paléozool., xxvii, 27.
- 1916 F
The growth of bone in Cretaceous times.
Science (n.s.), xliii, 35-36.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 110.
Review in Rev. crit. Paléozool., xxvii, 28.
- 1916 G
Mesozoic pathology and bacteriology.
Science (n.s.), xliii, 425-426.
- 1917 A
The influence of disease in the extinction of races.
Science (n.s.), xlv, 63-64.
- 1917 B
Studies in paleopathology. I: General consideration of the evidences of pathological conditions found among fossil animals.
Ann. Med. Hist., 1917, 374-393, 20 figs.
- Moodie, R. L.—Continued** 1918 A
Review of Osborn's *Equidæ of the Oligocene, Miocene and Pliocene of North America*.
Science (n.s.), xlviii, 171-172.
- 1918 B
Opisthotonus and allied phenomena among fossil vertebrates.
Amer. Naturalist, lxi, 384-394, 8 figs.
- 1918 C
Palæontological evidence of the antiquity of disease.
Scient. Monthly, vii, 265-281.
- 1918 D
Pathological evidences of disease among ancient races of man and extinct animals.
Surg., Gynecol. Obstet., 1918, 498-510, 45 figs.
- 1918 E
Synthesis of palæontology and medical history.
Science (n.s.), xlviii, 619-620.
- 1919 A
Opisthotonus.
Science (n.s.), L, 275-276.
- 1920 A
Ancient bacteria and the beginning of disease.
Scient. Monthly, xi, 362-364.
- 1920 B
Evolution's most romantic moment.
Scient. Monthly, xi, 464-469, 5 figs.
- 1920 C
The nature of the primitive haversian system.
Anat. Record, xix, 47-50, pl. i.
- 1920 D
Thread molds and bacteria in the Devonian.
Science (n.s.), LI, 14-15.
- 1920 E
Concerning the fossilization of blood corpuscles.
Amer. Naturalist, liv, 460-464, 1 fig.
- 1920 F
Microscopic examination of a fossil fish brain.
Jour. Comp. Neur., xxxii, 329-333, 2 figs.
The bibliography presents 4 titles.
- 1921 A
Osteomyelitis in the Permian.
Science (n.s.), lxi, 333.
- 1922 A
The paleopathology of the parasuchians.
Science (n.s.), lvi, 417.

- Moodie, R. L.**—Continued 1922 B
The influence of the lateral line system on the peripheral osseous elements of fishes and Amphibia.
Jour. Comp. Neur., xxxiv., 318-335, 5 figs.
The bibliography presents 20 titles.
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- 1922 C
On the endocranial anatomy of some Oligocene and Pleistocene mammals.
Jour. Comp. Neur., xxxiv., 343-371, 25 figs.
Appended is a bibliography of 17 titles.
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- 1923 A
An unusual form of Pliocene pathology.
Amer. Jour. Sci. (5), v, 335-336, 1 fig.
Abstract in Geol. Zentralbl., xxx, 23.
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- 1923 B
Paleopathology. An introduction to the study of ancient evidences of disease.
8vo., 1-567 pages, pls. i-cxvii, figs. 1-49, University Press.
Reviewed in Amer. Jour. Sci. (5), vi, 440-442; Jour. Geol., xxxii, 262.
Abstracts in Rev. crit. Paléozoöl., xxviii, 65, 1924; Neues Jahrb. Min. Geol. Pal., 1925, i, 290.
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- 1926 A
Studies in paleopathology. XIII: The elements of the haversian system in normal and pathological structures among fossil vertebrates.
Biol. Gen., ii, 63-95, pls. v-xvi, 10 text-figs.
In foot-notes are numerous citations of the literature of the subject.
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- 1926 B
A Cretaceous fish spine.
Amer. Naturalist, LX, 290-293, 2 figs.
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- 1927 A
Vertebral lesions in the sabre-tooth, Pleistocene of California, resembling the so-called *Myositis ossificans progressiva* compared with certain ossifications in the dinosaurs.
Ann. Med. Hist., ix, 91-102, 11 figs.
The bibliography cites 12 articles.
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- 1927 B
Tumors in the Lower Carboniferous.
Science (n.s.), LXVI, 541.
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- 1928 A
The Cephalaspidæ.
Science (n.s.), LXVII, 348-349.
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- Mook, Charles C.** 1914 A
The dorsal vertebræ of *Camarasaurus* Cope.
Bull. Amer. Mus. Nat. Hist., xxxiii, 223-227, 3 text-figs.
Brief abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, 331; Nature, London, xcv, 73; Geol. Zentralbl., xxviii, 446.
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- 1914 B
Notes on *Camarasaurus* Cope.
Ann. N. Y. Acad. Sci., xxiv, 19-22, 1 text-fig.
Abstracts in Bull. Geol. Soc. Amer., xxv, 143; Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 331.
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- 1915 A
Origin and distribution of the Morrison formation.
Bull. Geol. Soc. Amer., 315-322, 4 text-figs.
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- 1916 A
A study of the Morrison formation.
Ann. N. Y. Acad. Sci., xvii, 39-191, pl. vi.
Presents a list of the vertebrates.
The bibliography occupies pages 172-191.
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- 1917 A
Criteria for the determination of species of the Sauropoda, with description of a new species of *Apatosaurus*.
Bull. Amer. Mus. Nat. Hist., xxxvii, 355-358, 2 text-figs.
Abstract in Geol. Zentralbl., xxviii, 508.
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- 1917 B
The fore and hind limbs of *Diplodocus*.
Bull. Amer. Mus. Nat. Hist., xxxvii, 815-819, figs. 1, 2.
Geol. Zentralbl., xxviii, 508.
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- 1918 A
The habitat of the sauropod dinosaurs.
Jour. Geol., xxvi, 459-470.
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- 1921 A
Skull characters and affinities of the extinct Florida gavial *Gavialosuchus americana* (Sellards).
Bull. Amer. Mus. Nat. Hist., xliv, 33-41, pls. v-ix, 1 table.
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- 1921 B
Individual and age variations in the skulls of Recent Crocodilia.
Bull. Amer. Mus. Nat. Hist., xliv, 51-66, pls. x-xii, 4 figs.
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- 1921 C
Notes on the postcranial skeleton in the Crocodilia.
Bull. Amer. Mus. Nat. Hist., xliv, 67-100, pls. xiii, xiv, 20 text-figs.

- Mook, Charles C.**—Continued 1921 D
The dermo-supraoccipital bone in the Crocodilia.
Bull. Amer. Mus. Nat. Hist., XLIV, 101-103, 2 figs.
- 1921 E
Allognathosuchus, a new genus of Eocene crocodilians.
Bull. Amer. Mus. Nat. Hist., XLIV, 105-116, pl. xv.
- 1921 F
Description of a skull of a Bridger crocodilian.
Bull. Amer. Mus. Nat. Hist., XLIV, 111-116, pls. xvi, xvii.
- 1921 G
The skull of *Crocodylus acer* Cope.
Bull. Amer. Mus. Nat. Hist., XLIV, 117-121, pls. xviii, xix.
- 1921 H
Skull characters of Recent Crocodilia.
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Dolichocephaly and brachycephaly in
the lower mammals.
Bull. Amer. Mus. Nat. Hist., XVI, 77-89,
5 figs.
Abstracts in Ann. N. Y. Acad., XIV, 147
(1902); Neues Jahrb. Min. Geol. Pal., 1904,
II, Ref., 302-304; Geol. Centralbl., IV, 398;
Jahresber. Anat. Entwickl. (N.F.), VIII, pt.
3, 107-108.

Osborn, H. F.—Continued 1902 B

The four phyla of Oligocene titanotheres.

Bull. Amer. Mus. Nat. Hist., xvi, 91-109, figs. 1-13.

Abstracts in Science (n.s.), xv, 626; Ann. N. Y. Acad. Sci., 1903, xv, 44-45; Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 297-298; Geol. Centralbl., iv, 399; Rev. crit. Paléozool., vii, 7; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 119.

1902 C

American Eocene primates and the supposed rodent family Mixodectidae.

Bull. Amer. Mus. Nat. Hist., xvi, 169-214, 40 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 290-294; Geol. Centralbl., iv, 475; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 114-115.

1902 D

Homoplasy as a law of latent or potential homology.

Amer. Naturalist, xxxvi, 259-271, 6 text-figs.

Abstracts in Geol. Centralbl., ix, 659; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 84-87.

1902 E

The law of adaptive radiation.

Amer. Naturalist, xxxvi, 353-363, 4 text-figs.

Abstracts in Geol. Centralbl., ix, 659; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 85.

1902 F

The four phyla of titanotheres.

Science (n.s.), xv, 626.

An abstract of Osborn, H. F., 1902 B.

1902 G

Recent zoopaleontology.

Science (n.s.), xv, 355-357, 514.

1902 H

Recent zoopaleontology.

Science (n.s.), xvi, 673-676, 713-715, 749-752.

1902 I

On Vertebrata of the Mid-Cretaceous of the Northwest Territory. I: Distinctive characters of the Mid-Cretaceous fauna.

Contrib. Canad. Pal., iii (4to), pt. II, 1-21.

Abstract in Geol. Centralbl., ix, 653. Note on in Canad. Rec. Sci., ix, 86; Rev. crit. Paléozool., vii, 21.

Osborn, H. F.—Continued 1903 A

Ornitholestes hermanni; a new compsognathoid dinosaur from the Upper Jurassic.

Bull. Amer. Mus. Nat. Hist., xix, 459-464, text-figs. 1-3.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, I, Ref., 152; Geol. Centralbl., v, 143; Rev. crit. Paléozool., viii, 81-82; Jahresber. Anat. Entwickl. (N. F.), ix, pt. 3, 167.

1903 B

Glyptotherium texanum, a new glyptodont from the lower Pleistocene of Texas.

Bull. Amer. Mus. Nat. Hist., xix, 491-494, pl. xliii.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, II, Ref., 306; Rev. crit. Paléozool., ix, 5; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 185.

1903 C

The skull of *Creosaurus*.

Bull. Amer. Mus. Nat. Hist., xix, 697-701, 2 text-figs.

Abstracts in Rev. crit. Paléozool., viii, 210; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 167.

1903 D

Recent zoopaleontology.

Science (n.s.), xvii, 157-158, 312-314, 356-357, 673-674.

Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 154-155. Also in Geol. Centralbl., ix, 636, 637, 660.

1903 E

Evolution of the Proboscidea in North America.

Science (n.s.), xvii, 249.

1903 F

On the primary division of the Reptilia, into two sub-classes, Synapsida and Diapsida.

Science (n.s.), xvii, 275-276.

1903 G

Recent zoopaleontology.

Science (n.s.), xviii, 665-668, 699-702, 835-837.

Abstract in Geol. Centralbl., ix, 659.

1903 H

The reptilian subclasses Diapsida and Synapsida and the early history of the Diaptosauria.

Mem. Amer. Mus. Nat. Hist., I, 449-507, pl. xl, 24 text-figs.

Abstracts in Geol. Centralbl., ix, 661-662; Rev. crit. Paléozool., viii, 84-90; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 154-156.

- Osborn, H. F.—Continued** 1903 I
On recent models and restorations of a number of extinct animals, with a discussion of their probable habits and mode of life.
Science (n.s.), xviii, 978.
An abstract.
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- 1904 A
An armadillo from the Middle Eocene (Bridger) of North America.
Bull. Amer. Mus. Nat. Hist., xx, 163-165.
Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 187; Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 163-165; Rev. crit. Paléozool., ix, 3.
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- 1904 B
New oligocene horses.
Bull. Amer. Mus. Nat. Hist., xx, 167-179; pls. iv, v; text-figs. 1-8.
Abstracts in Jahresber. Anat. Entwickl. (N. F.), x, Abth. 3, 182; Rev. crit. Paléozool., ix, 4.
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- 1904 C
Manus, sacrum, and caudals of Sauropoda.
Bull. Amer. Mus. Nat. Hist., xx, 181-190, 6 text-figs.
Abstracts in Jahresber. Anat. Entwickl. (N. F.), x, Abth. 3, 171-172; Rev. crit. Paléozool., viii, 210.
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- 1904 D
New Miocene rhinoceroses with revision of known species.
Bull. Amer. Mus. Nat. Hist., xx, 307-326, 21 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, II, Ref. 133-135; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 181; Rev. crit. Paléozool., ix, 68.
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- 1904 E
The great Cretaceous fish *Portheus molossus* Cope.
Bull. Amer. Mus. Nat. Hist., xx, 377-381, pl. x, 4 text-figs.
Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 159; Rev. crit. Paléozool., ix, 77.
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- 1904 F
Revised list of casts, models, photographs and restorations of fossil vertebrates.
Bull. Amer. Mus. Nat. Hist., xx, App., 1-52, 8 text-figs.
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- 1904 G
Palæontological evidence for the original tritubercular theory.
Amer. Jour. Sci. (4), xvii, 321-323, pl. xxi.
Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 177; Rev. crit. Paléozool., ix, 2-3.
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- Osborn, H. F.—Continued** 1904 H
Reclassification of the Reptilia.
Amer. Naturalist, xxxviii, 93-115, 13 text-figs.
Abstracts in Geol. Centralbl., ix, 661; Nature, LXXI, 615; Rev. crit. Paléozool., viii, 206-209; Geol. Mag. (5), I, 517.
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- 1904 I
Recent zoopaleontology.
Science (n.s.), xix, 35-36, 271-272.
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- 1904 J
On the position of the bones of the forearm in the *Opisthocoelia* or *Sauropoda*.
Science (n.s.), xix, 255-256.
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- 1904 K
Conclusive paleontological evidence for the tritubercular theory.
Science (n.s.), xix, 256.
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- 1904 L
A reclassification of the Reptilia.
Science (n.s.), xix, 256-257 (abstract).
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- 1904 M
On the primary components of vertebræ and their relations to ribs.
Science (n.s.), xix, 257.
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- 1904 N
The classification of the Reptilia.
Science (n.s.), xix, 307-308.
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- 1904 O
Recent advances in our knowledge of the evolution of the horse.
Proc. Amer. Philos. Soc., XLIII, 156-157.
Abstract in Science (n.s.), xix, 717.
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- 1904 P
Teleorhinus browni—a teleosaur in the Fort Benton.
Bull. Amer. Mus. Nat. Hist., xx, 239-240.
Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 169; Rev. crit. Paléozool., ix, 71; Jour. Geol., xiii, 184.
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- 1904 Q
Fossil wonders of the West. The dinosaurs of the Bone-Cabin quarry.
Cent. Mag., LXVIII (n.s. XLVI) Sept., 680-694, 16 illustrations.
Abstract in Nature, London, LXXI, 279.
Reprint in Handbook series, No. 5, Amer. Mus. Nat. Hist., 1915, 131-152.
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- 1904 R
The evolution of the horse in America.
Cent. Mag., LXIX (n.s. XLVII), 3-17, with 12 figs.
For a correction see page 317 of same volume.

- Osborn, H. F.—Continued 1904 S
Abstracts of papers read at meeting
of National Academy of Sciences.
Scient. Amer., xc, 366.
- 1905 A
Tyrannosaurus and other Cretaceous
carnivorous dinosaurs.
Bull. Amer. Mus. Nat. Hist., xxi, 259-265,
2 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal.,
1907, II, Ref., 492; Geol. Centralbl., xii, 221;
and in Nature, LXXIII, 229-230.
- 1905 B
Recent discoveries of extinct ani-
mals in the Rocky Mountain region
and their bearings on the present
problems of evolution.
Science (n.s.), xxi, 28.
See Ann. N. Y. Acad. Sci., xvi, 358.
- 1905 C
The phylogeny and classification of
the Reptilia.
Science (n.s.), xxi, 294-295.
- 1905 D
Recent zoopaleontology.
Science (n.s.), xxi, 315-316.
Brief abstract in Geol. Centralbl., x, 465.
- 1905 E
Fossil mammals of Mexico.
Science (n.s.), xxi, 931-932.
Abstracts in Geol. Centralbl., x, 465;
Neues Jahrb. Min. Geol. Pal., 1907, I, Ref.,
126-127.
- 1905 F
Recent vertebrate paleontology.
Science (n.s.), xxii, 188-189.
Brief abstract in Geol. Centralbl., x, 188-
189.
- 1905 G
Skull and skeleton of the sauropo-
dous dinosaurs, *Morosaurus* and *Bron-
tosaurus*.
Science (n.s.), xxii, 374-376.
- 1905 H
Ten years progress in the mam-
malian palaeontology of North Amer-
ica.
Amer. Geologist, xxxvi, 199-229, pl. xii,
7 text-figs.
Noted in Geol. Centralbl., x, 465.
- 1905 I
Ten years progress in the mam-
malian palaeontology of North Amer-
ica.
Verh. internat. Zool.-Kongr., vi, Bern, 1904,
86-113, pls. i-xv, 7 text-figs.
Résumé in Neues Jahrb. Min. Geol. Pal.,
1907, I, Ref., 454-458.
- Osborn, H. F.—Continued 1905 J
Evolution of the horse. Recent dis-
coveries and studies.
Verh. internat. Zool.-Kongr., vi, Bern,
1904, 282.
- 1905 K
The evolution of the horse.
Rep. Brit. Assoc. Adv. Sci., LXXIV, Cam-
bridge, 1904, 607-608.
- 1905 L
Western explorations for fossil
vertebrates.
Pop. Sci. Month., LXVII, 561-568, 6 figs.
- 1905 M
Ichthyosaurs. The evolution of fit-
ness in ichthyosaurs.
Cent. Mag., LXIX (n.s. XLVII), 414-422, 6
illustrations.
- 1905 N
The present problems of paleontol-
ogy.
Pop. Sci. Month., LXVI, 226-242.
- 1905 O
The ideas and terms of modern phi-
losophical anatomy.
Science (n.s.), xxi, 959-961.
- 1906 A
Tyrannosaurus, Upper Cretaceous
carnivorous dinosaur (2d comm.).
Bull. Amer. Mus. Nat. Hist., xxii, 281-
296, pl. xxxix, 12 text-figs.
Abstracts in Sci. Progress, I, 456; Nature,
London, LXXIV, 416; Rev. crit. Paléozool.,
145-146; Jahresber. Anat. Entwickl. (N.F.),
xii, pt. 3, 163.
- 1906 B
Recent vertebrate paleontology.
Science (n.s.), xxiv, 55-57.
- 1906 C
The causes of extinction of Mam-
malia.
Amer. Naturalist, xl, 769-795, 829-859.
Abstracts in Geol. Centralbl., xi, 473;
Rev. crit. Paléozool., xi, 207-211.
- 1906 D
The skeleton of *Brontosaurus* and
skull of *Morosaurus*.
Nature, LXXIII, 282-284, 4 text-figs.
Abstracts in Geol. Centralbl., vii, 661; xi,
108-109; Neues Jahrb. Min. Geol. Pal., 1910,
II, Ref., 143.
- 1906 E
Preface to ["The Arab Horse," by
Spencer Borden].
vii-xiii pages.

Osborn, H. F.—Continued 1906 F
Mountain goat hunting with the camera.

Rep. N. Y. Zool. Soc., x, 217-233, 17 figs.
1907 A

Tertiary mammal horizons of North America.

Bull. Amer. Mus. Nat. Hist., xxiii, 237-253, 3 text-figs.

Reviewed in Amer. Jour. Sci. (4), xxiv, 504-505. Abstracts in Geol. Centralbl., xi, 376; Rev. crit. Paléozool., xi, 211-213; Sci. Progress, ii, 501.

1907 B

A mounted skeleton of the Columbian mammoth (*Elephas columbi*).

Bull. Amer. Mus. Nat. Hist., xxiii, 255-257, 1 text-fig.

Brief abstracts in Geol. Centralbl., xi, 379; Sci. Progress, ii, 511; Rev. crit. Paléozool., xi, 219.

1907 C

Points of the skeleton of the Arab horse.

Bull. Amer. Mus. Nat. Hist., xxiii, 259-263, 3 text-figs.

Reviewed in Amer. Jour. Sci. (4), xxiv, 380-381.

1907 D

A mounted skeleton of *Naosaurus*, a pelycosaur from the Permian of Texas.

Bull. Amer. Mus. Nat. Hist., xxiii, 265-270, pls. ix, x, 3 text-figs.

Abstracts in Sci. Progress, ii, 519; Rev. crit. Paléozool., xi, 226; Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 165-167.

1907 E

Evolution as it appears to the paleontologist.

Science (n.s.), xxvi, 744-749.

Abstract in Rev. crit. Paléozool., 13, 150.

1907 F

A paleontological trip to northwestern Nebraska.

Science (n.s.), xxvi, 871-872.

1907 G

Evolution of mammalian molar teeth to and from the triangular type.

8vo., 1-250, 215 text-figs. Edited by W. K. Gregory.

Abstracts in Science (n.s.), xxvii, 341-342; Anat. Record, ii, 221-225; Rev. crit. Paléozool., xii, 223; Amer. Jour. Sci. (4), xxv, 264; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 161.

1907 H

The reclassification of the Mammalia.

Ann. N. Y. Acad. Sci., xvii, 611-613.

Osborn, H. F.—Continued 1907 I
Foreword to the monographs on vertebrate palæontology.

U. S. Geol. Surv. Mon., xlix, pages xiii-xv.

1907 J

Explorations of John Bell Hatcher for the paleontological monographs of the United States Geological Survey, together with a statement of his contributions to American geology and paleontology. A biographical sketch of John Bell Hatcher.

U. S. Geol. Surv. Mon., xlix, pages xvii-xxvi.

This sketch contains a list of Hatcher's scientific papers.

1907 K

Hunting the ancestral elephant in the Fayûm Desert.

Cent. Mag., LXXIV (n.s. LII), 815-835, 20 illustrations.

Brief abstract in Geol. Centralbl., xi, 28. Abstract in Sci. Progress, ii, 503.

1908 A

New or little known titanotheres from the Eocene and Oligocene.

Bull. Amer. Mus. Nat. Hist., xxiv, 599-617, 21 text-figs.

Abstracts in Geol. Centralbl., xiii, 395-396; Rev. crit. Paléozool., xiii, 143; Amer. Jour. Sci. (4), xxix, 90.

1908 B

The four inseparable factors of evolution. Theory of their distinct and combined action in the transformation of the titanotheres, an extinct family of hoofed animals in the order of Perissodactyla.

Science (n.s.), xxvii, 148-150.

Abstract in Rev. crit. Paléozool., xiii, 150.

1908 C

Dolicocephaly and brachycephaly in titanotheres.

Science (n.s.), xxvii, 255.

1908 D

Coincident evolution through rectigradations and fluctuations.

Science (n.s.), xxvii, 749-752, 3 text-figs.

Abstract in Rev. crit. Paléozool., xiii, 150.

1909 A

Communications and remarks before American Society of Vertebrate Paleontologists.

Science (n.s.), xxix, 197-198.

Osborn, H. F.—Continued 1909 B

The epidermis of an iguanodont dinosaur.

Science (n.s.), XXIX, 793-795.

Abstract in Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 298.

1909 C

The upper Cretaceous iguanodont dinosaurs.

Nature, LXXXI, 160-162, 2 figs. See also note on pages 194-195.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 321; Geol. Centralbl., XIII, 438.

1909 D

Cenozoic mammal horizons of western North America.

Bull. U. S. Geol. Surv., CCCLXI, 1-90, 3 pls. and 15 text-figs.

A bibliography occupies pages 9-18.

Abstracts in Amer. Jour. Sci. (4), XXIX, 88-89; Geol. Centralbl., XIII, 393-394; Rev. crit. Paléozool., XIII, 147-149; Jour. Geol., XIX, 95.

1909 E

The feeding habits of *Mærittherium* and *Palæomastodon*.

Nature, LXXXI, 139-140, 2 figs.

1910 A

Correlation of the Cenozoic through its mammalian life.

Jour. Geol., XVIII, 201-215, 4 figs.

Reprinted in Bailey Willis and R. D. Salisbury's "Outlines of Geologic History," Univ. of Chicago Press, 1910, pages 251 to 264.

Abstract in Geol. Centralbl., XVI, 49.

1910 B

The age of mammals in Europe, Asia and North America.

New York, The Macmillan Co., 8vo., i-xvii+1-635 pages, with 220 figs. Pages 515-563 form an appendix in which is presented a classification of the Mammalia.

Reviews in Amer. Jour. Sci. (4), XXXI, 150-151, Amer. Mus. Jour., XI, 1911, 65-67; Sci. Progress, V, 660; Bull. Amer. Geogr. Soc., XLIII, 541; Rev. crit. Paléozool., XV, pages i-xii; Geol. Centralbl., XIX, 393; Nature, LXXXVIII, 135-136; Amer. Mus. Jour., XI, 65; Bull. Amer. Geogr. Soc., XLIII, 541.

Abstract in Winge, H., 1923 A, p. 185.

1910 C

Paleontologic evidences of adaptive radiation.

Pop. Sci. Month., LXXVII, 77-81.

Osborn, H. F.—Continued 1910 D

Evolution as it appears to the paleontologist.

Proc. internat. Zool. Congr., VII, Boston, 1907, 733-739.

Issued also as a reprint, 1-7; also same as Osborn, H. F., 1907 E.

1911 A

Biological conclusions drawn from the study of the titanotheres.

Science (n.s.), XXXIII, 825-828.

1911 B

A dinosaur mummy.

Amer. Mus. Jour., XI, 7-11, 4 figs.

Abstracts in Geol. Centralbl., 42; Nature, LXXXV, 520; Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 209; Sci. Progress, VI, 568, fig.

1911 C

Palæontology.

Encyclop. Brit., ed. 11, XX, 559-591, 10 figs.

1912 A

Craniometry of the Equidæ.

Mem. Amer. Mus. Nat. Hist. (n.s.), I, pt. III, 55-100, 17 text-figs.

Abstract in Geol. Centralbl., XIX, 651; Rev. crit. Paléozool., XVII, 203.

1912 B

The continuous origin of certain unit characters as observed by a paleontologist.

Amer. Naturalist, XLIV, 185-206, 249-278, 8 text-figs.

1912 C

Phylogeny and ontogeny of the horns of mammals.

Science (n.s.), XXXV, 595-596.

1912 D

Skull measurements in man and the hoofed mammals.

Science (n.s.), XXXV, 596.

1912 E

Tetraplasy, a law of the four inseparable factors of evolution.

Proc. Acad. Nat. Sci. Phila., LXIV, 144-146.

1912 F

Tetraplasy, the law of the four inseparable factors of evolution.

Jour. Acad. Nat. Sci. Phila. (2), XV, 277-309.

Abstract in Rev. crit. Paléozool., XVII, 195.

Osborn, H. F.—Continued

1912 G

Symposium on ten years progress in vertebrate paleontology. Correlation and paleogeography.

Bull. Geol. Soc. Amer., xxiii, 232-256, 11 text-figs.

For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Williston and Sinclair.

1912 H

Evolution as it appears to the paleontologist.

Proc. internat. Zool. Congr., vii, Boston, 1907, 733-739.

1912 I

A means of estimating the age of the mastodon and other Proboscidea.

Proc. internat. Zool. Congr., vii, Boston, 1907, 782-784, figs. 1-3.

1912 J

Crania of *Tyrannosaurus* and *Allosaurus*.

Mem. Amer. Mus. Nat. Hist. (n.s.), i, 1-30, pls. i-iv, 27 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, i, 335; Geol. Centralbl., xix, 445; Sci. Progress, viii, 14; Rev. crit. Paléozool., xvii, 130; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 210; Nature, xc, 313.

1912 K

Integument of the iguanodont dinosaur *Trachodon*.

Mem. Amer. Mus. Nat. Hist. (n.s.), i, 33-54, pls. v-x, 13 text-figs.

For abstracts see Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 334-335; Geol. Centralbl., xix, 445-446.

1912 L

The continuous origin of certain unit characters as observed by a paleontologist.

Harvey Lect., ser. 1911-1912, 153-204, 8 figs.

Review in Geol. Mag. (6), i, 125-126.

1913 A

Tyrannosaurus, restoration and model of the skeleton.

Bull. Amer. Mus. Nat. Hist., xxxii, 91-92, pls. iv-vi.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 468; Rev. crit. Paléozool., xxi, 47; Geol. Zentralbl., xxi, 265.

Osborn, H. F.—Continued

1913 B

Eomoropus, an American Eocene chalicotheres.

Bull. Amer. Mus. Nat. Hist., xxxii, 261-274, 11 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 140; Rev. crit. Paléozool., xix, 1; xxi, 48; Geol. Zentralbl., xxi, 238; Nature, xciii, 333.

1913 C

Lower Eocene titanotheres. Genera *Lambdotherium*, *Eotitanops*.

Bull. Amer. Mus. Nat. Hist., xxxii, 407-415, 9 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 140; Sci. Progress, viii, 635; Rev. crit. Paléozool., xix, 6, 101; xxi, 50; Geol. Zentralbl., xxi, 234.

1913 D

The skull of *Bathyopsis*, Wind River Uintathere.

Bull. Amer. Mus. Nat. Hist., xxxii, 417-420, pls. lxiv-lxvi, 4 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 141; Sci. Progress, viii, 635; Rev. crit. Paléozool., xix, 1, 101; xxi, 50; Geol. Zentralbl., xxi, 266; Nature, xcii, 514.

1914 A

Close of the Cretaceous and opening of Eocene time in North America.

Bull. Geol. Soc. Amer., xxv, 321-323.

1914 B

Recent results in the phylogeny of the titanotheres.

Bull. Geol. Soc. Amer., xxv, 403-405, 1 text-fig.

A brief abstract is found on page 137 of the same volume. Abstract in Neues Jahrb. Min. Geol. Pal., 1919, Ref., 217-218.

1914 C

New methods of restoring *Eotitanops* and *Brontotherium*.

Bull. Geol. Soc. Amer., xxv, 406, 1 text-fig.

1914 D

Restoration of the world series of elephants and mastodons.

Bull. Geol. Soc. Amer., xxv, 407-410, 2 text-figs.

1914 E

Rectigradations and allometrons in relation to the conceptions of the "mutations of Waagen," of species, genera, and phyla.

Bull. Geol. Soc. Amer., xxv, 411-416, 3 tables.

- Osborn, H. F.—Continued 1915 A
Close of Jurassic and opening of Cretaceous time in North America.
Bull. Geol. Soc. Amer., xxvi, 295-302, 1 text-fig.
- 1915 B
Origin of single characters as observed in fossil and living animals and plants.
Amer. Naturalist, xlix, 193-240, 10 text-figs.
Abstracts in Nature, xcv, 550-551; Rev. crit. Paléozool., xxi, 1.
- 1915 C
Review of the Pleistocene of Europe, Asia, and Africa.
Ann. N. Y. Acad. Sci., xxvi, 215-315.
- 1915 D
The origin of new adaptive characters.
Nature, xcvi, 284-285.
Followed by a response on the part of the reviewer.
- 1915 E
The dinosaurs of the Bone Cabin quarry.
Amer. Mus. Nat. Hist. Handbook No. 5, 131-152, with figures.
- 1916 A
Two new Oligocene titanotheres.
Bull. Amer. Mus. Nat. Hist., xxxv, 721-723, 2 text-figs.
- 1916 B
Men of the Old Stone age; their environment, life and art. Illustrations by Upper Palæolithic artists and Charles R. Knight, Erwin S. Christman, and others.
Second edition. 8vo., i-xxvii+1-545 pages, 8 plates, 268 text-figs.
Pages 513-532 are the bibliography.
Reviews in L'Anthrop. Paris, xxviii, 1917, 427-430; Nature, xcvi, 45.
- 1916 C
Additional characters of *Tyrannosaurus* and *Ornithomimus* (Abstract).
Bull. Geol. Soc. Amer., xxvii, 150-151.
- 1916 D
Pelvis and sacrum of *Camarasaurus* (Abstract).
Bull. Geol. Soc. Amer., xxvii, 151.
- 1916 E
The origin and evolution of life upon the earth.
Scient. Monthly, iii, 5-22, 170-190, 289-307, 313-334, 502-513, 601-614, with 25 figs.
Pages 189, 190, 306, 307, 333, 334 are the bibliography.
- Osborn, H. F.—Continued 1917 A
Skeletal adaptations of *Ornitholestes*, *Struthiomimus*, *Tyrannosaurus*.
Bull. Amer. Mus. Nat. Hist., xxxv, 733-771, pls. xxiv-xxvii, 23 text-figs.
Abstracts in Bull. Geol. Soc. Amer., xxviii, 215; Rev. crit. Paléozool., xxiv, 145; Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 255-256; Geol. Zentralbl., xxviii, 507; Sci. Progress, xii, 422.
- 1917 B
The origin and evolution of life. On the theory of action, reaction and interaction of energy.
8vo., i-xxxi+1-322 pages, 136 illustrations.
Published in part in Scient. Monthly, iii, 1916, 5-22, 170-190, 289-307, 313-334, 502-513, 601-614; abstract in Amer. Jour. Sci. (4), xlv, 77.
Reviewed in Amer. Mus. Jour., xviii, 193-199; Science, xlvii, 472-474; Jour. Geol., xxvi, 283-285; Nature, ciii, 201.
- 1917 C
The "ostrich" dinosaur and the "tyrant" dinosaur.
Amer. Mus. Jour., xvii, 5-13, 10 illustrations.
Note on in Nature, xcix, 213.
- 1917 D
Heritage and habitus.
Science (n.s.), xlv, 660-661.
Abstract in Rev. crit. Paléozool., xxii, 109.
- 1918 A
Equidæ of the Oligocene, Miocene, and Pliocene of North America; iconographic type revision.
Mem. Amer. Mus. Nat. Hist. (n.s.), ii, 1-330, pls. i-xliv, 173 text-figs.
Reviewed in Science (n.s.), xlviii, 171; Rev. crit. Paléozool., xxii, 55-57; Amer. Jour. Sci. (4), xlv, 770-771; Nat. Hist., xix, 733; Geol. Mag. (6), v, 518-519; ibid., lvii, 1920, 128-130.
Abstract in Geol. Zentralbl., xxvii, 184; Sci. Progress, xiv, 241.
- 1918 B
Observations on the skeletons of *Moropus cooki* in the American Museum.
Bull. Geol. Soc. Amer., xxix, 131-132.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 113.
Review in Rev. crit. Paléozool., xxvii, 31.
- 1918 C
A long-jawed mastodon skeleton from South Dakota and phylogeny of the Proboscidea.
Bull. Geol. Soc. Amer., xxix, 133-137, with a phylogenetic table.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 114.

- Osborn, H. F.—Continued 1918 D
 Samuel Wendell Williston.
 Jour. Geol., xxvi, 673-689.
- 1919 A
 Memorial of Samuel Wendell Williston.
 Bull. Geol. Soc. Amer., xxx, 66-76, portrait.
- 1919 B
 New titanotheres of the Huerfano.
 Bull. Amer. Mus. Nat. Hist., xli, 557-569, 7 figs.
 Abstract in Rev. Géol. et Sci. conn., 1923, 111.
 Review in Rev. crit. Paléozool., xxvii, 29.
- 1919 C
 Seventeen skeletons of *Moropus*; probable habits of this animal.
 Proc. Nat. Acad. Sci., v, 250-252, 1 fig.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 114; nature, cvi, 252.
 Review in Rev. crit. Paléozool., xxvii, 32.
- 1919 D
Palæomastodon, the ancestor of the long-jawed mastodons only.
 Proc. Nat. Acad. Sci., v, 265-266, with 1 fig.
 Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 115; Nature, cvi, 252.
- 1920 A
 The hall of the age of man in the American Museum.
 Nat. Hist., xx, 228-246, with 14 illustrations.
- 1921 A
 The evolution, phylogeny, and classification of the Proboscidea.
 Amer. Mus. Novit., i, 1-15, 15 illustrations.
 Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 112; Sci. Progress, xvi, 214.
 Review in Rev. crit. Paléozool., xxvii, 29.
- 1921 B
 First appearance of the true mastodon in America.
 Amer. Mus. Novit., x, 1-6, 2 figs.
 Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 117; Sci. Progress, xvi, 214.
 Review in Rev. crit. Paléozool., xxvii, 34.
- 1921 C
 The first appearance of the true mastodon in America.
 Science (n.s.), liv, 108.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 115-116.
- Osborn, H. F.—Continued 1921 D
 Resemblances and contrasts between zoologic and palæontologic research in mammalogy. Desirability of uniform standards and systems in classification, in description, in measurement, in reasoning.
 Jour. Mamm., ii, 1-11, with figs. 1, 2.
- 1921 E
 Adaptive radiation and classification of the Proboscidea.
 Proc. Nat. Acad. Sci., vii, 231-234, 1 diagram.
 Review in Rev. crit. Paléozool., xxvii, 79.
- 1922 A
Hesperopithecus, the first anthropoid primate found in America.
 Amer. Mus. Novit., xxxvii, 1-5, 3 figs.
 Abstracts in Rev. Géol. et Sci. conn., v, 110; Rev. crit. Paléozool., xxviii, 5, 1924; Geol. Zentralbl., xxix, 125.
- 1922 B
 Species of American Pleistocene mammoths. *Elephas jeffersonii*, new species.
 Amer. Mus. Novit., No. 41, 1-16, 12 figs.
 Abstracts in Geol. Zentralbl., xxviii, 375; Neues Jahrb. Min. Geol. Pal., 1923, i, 325.
- 1922 C
Hesperopithecus, the first anthropoid primate found in America.
 Science (n.s.), lv, 463-465.
 The same as Osborn, H. F., 1922 A, but without figures. Abstract in Amer. Jour. Sci. (4), iii, 478.
 Review in Rev. crit. Paléozool., xxviii, 5.
- 1922 D
 Proving Asia the mother of the continents.
 Asia, xxii, 721-724, 5 figs.
- 1922 E
Hesperopithecus, the anthropoid primate of western Nebraska.
 Nature, cx, 281-283, 2 figs.
- 1922 F
Dibelodon edensis (Frick) of Southern California, *Miomastodon* of the Middle Miocene, new genus.
 Amer. Mus. Novit., xlix, 1-4, 1 fig.
 Abstract in Rev. crit. Paléozool., xxvii, 216.
- 1922 G
 Migrations and affinities of the fossil proboscideans of North and South America and Africa.
 Amer. Naturalist, lvi, 448-455.

- Osborn, H. F.—Continued 1922 H
 Pliocene (Tertiary) and early Pleistocene (Quaternary) Mammalia of East Anglia, Great Britain, in relation to the appearance of man.
 Geol. Mag., LIX, 433-441.
 Contains lists of fossil vertebrates by A. C. Savin.
 Abstract in Rev. crit. Paléozool., xxvii, 219.
- 1923 A
 Mastodons of the Hudson Highlands.
 Nat. Hist., xxiii, 3-24, with numerous illustrations.
- 1923 B
 Titanotheres and lophiodonts in Mongolia.
 Amer. Mus. Novit., xci, 1-5, 2 figs.
- 1923 C
 A new genus and species of Ceratopsia from New Mexico, *Pentacera-tops sternbergii*.
 Amer. Mus. Novit., xciii, 1-3, 1 fig.
 Abstracts in Rev. crit. Paléozool., xxviii, 102, 1924; Geol. Zentralbl., xxx, 447.
- 1923 D
 Two Lower Cretaceous dinosaurs of Mongolia.
 Amer. Mus. Novit., xcv, 1-10, 5 figs.
- 1923 E
 New subfamily generic and specific stages in the evolution of the Proboscidea.
 Amer. Mus. Novit., xcix, 1-4.
- 1923 F
 The extinct giant rhinoceros *Baluchitherium* of western and central Asia.
 Nat. Hist., xxiii, 209-228, with illustrations.
- 1923 G
Cadurcotherium from Mongolia.
 Amer. Mus. Novit., xcii, 1-2.
- 1924 A
 Joseph Leidy, founder of vertebrate paleontology in America.
 Science (n.s.), LIX, 173-176.
- 1924 B
Psittacosaurus and *Protiguanodon*: Two Lower Cretaceous iguanodonts from Mongolia.
 Amer. Mus. Novit., cxxvii, 1-16, 9 figs.
- 1924 C
 Three new Theropoda, *Protoceratops* zone, central Mongolia.
 Amer. Mus. Novit., cxliv, 1-12, figs. 1-8.
- Osborn, H. F.—Continued 1924 D
Eudinoceras, Upper Eocene amblypod of Mongolia.
 Amer. Mus. Novit., cxlv, 1-5, 2 figs.
- 1924 E
Andrewsarchus, giant mesonychid of Mongolia.
 Amer. Mus. Novit., cxlvi, 1-5, 3 figs.
- 1924 F
Serridentinus and *Baluchitherium*, Loh formation, Mongolia.
 Amer. Mus. Novit., cxlviii, 1-5, 2 figs.
- 1924 G
Parelephas in relation to phyla and genera of the family Elephantidae.
 Amer. Mus. Novit., clii, 1-7, 2 figs.
- 1924 H
 Additional generic and specific stages in the evolution of the Proboscidea.
 Amer. Mus. Novit., cliv, 1-5, 2 figs.
- 1924 I
 Sauropoda and Theropoda of the Lower Cretaceous of Mongolia.
 Amer. Mus. Novit., cxxviii, 1-7, 7 figs.
- 1924 J
 Factors in the evolution and phylogeny of the Proboscidea.
 Anat. Record, xxix, 114.
- 1924 K
 Asiatic center of mammalian dispersion.
 Pan-Amer. Geol., xli, 271-275.
- 1924 L
 The discovery of an unknown continent.
 Nat. Hist., xxiv, 133-149, 11 illustrations.
- 1925 A
 The elephants and mastodons arrive in America.
 Nat. Hist., xxv, 3-23, 18 figs.
- 1925 B
 Final conclusions on the evolution, phylogeny, and classification of the Proboscidea.
 Proc. Amer. Philos. Soc., Lxiv, 17-35, 3 figs.
- 1925 C
 The origin of species. II: Distinctions between rectigradations and allometrons.
 Proc. Nat. Acad. Sci., xi, art. 12, 749-752.

- Osborn, H. F.**—Continued 1925 D
Mammals and birds of the California tar pools, Rancho La Brea and McKittrick.
Nat. Hist., xxv, 527-543, colored plate, 13 text-figs.
Reviewed in Science (n.s.), LXIV, 426.
- 1925 E
Upper Eocene and Lower Oligocene titanotheres of Mongolia.
Amer. Mus. Novit., ccli, 1-12.
- 1925 F
The origin of species as revealed by vertebrate palæontology.
Nature, cxv, 925-926, 961-963.
- 1926 A
The origin of species. 1859-1925.
Scient. Monthly, xxii, 185-192.
Published in Yale Mus. Bull., vol. I, No. 1.
- 1926 B
Additional new genera and species of the mastodontoid Proboscidea.
Amer. Mus. Novit., ccxxxviii, 1-16, 12 figs.
The bibliography includes 9 titles.
- 1926 C
The problem of the origin of species as it appeared to Darwin in 1859 and as it appears to us today.
Science (n.s.), LXIV, 337-341.
- 1927 A
Recent discoveries relating to the origin and antiquity of man.
Science (n.s.), LXV, 481-488.
- , and H. E. **Anthony** 1922 A
Close of the age of the mammals.
Jour. Mamm., iii, 219-237, 6 figs. Followed by a discussion by prominent mammalogists.
The bibliography presents 15 titles.
- , and Walter **Granger** 1901 A
Fore and hind limbs of *Sauropoda* from the Bone Cabin quarry.
Bull. Amer. Mus. Nat. Hist., xiv, 199-208, 6 figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1903, I, Ref., 157-158; Geol. Centralbl., II, 763; Rev. crit. Paléozool., VII, 14.
- , and W. D. **Matthew** 1909 A
Geological correlation through vertebrate palæontology by international co-operation.
Ann. N. Y. Acad. Sci., XIX, 41-44.
- Osborn, H. F., and C. C. Mook** 1917 A
Skeleton and restoration of *Camarasaurus*.
Bull. Geol. Soc. Amer., xxviii, 215 (Abstract).
- 1919 A
Characters and restoration of the sauropod genus *Camarasaurus* Cope.
Proc. Amer. Philos. Soc., LVIII, 386-396, pl. i, 3 text-figs.
Abstract in Rev. Géol. et Sci. conn., IV, 1923, 110-111; Nature, CVI, 252.
Review in Rev. crit. Paléozool., XXVII, 28.
- 1920 A
Reconstruction of the skeleton of the sauropod dinosaur *Camarasaurus* Cope (*Morosaurus* Marsh).
Proc. Nat. Acad. Sci., VI, 15.
Abstract in Geol. Zentralbl., xxv, 540.
- 1921 A
Camarasaurus, *Amphicælias*, and other sauropods of Cope.
Mem. Amer. Mus. Nat. Hist. (n.s.), III, 247-287, pls. lx-lxxxv, 127 text-figs.
There is a bibliography of 28 titles.
Review in Rev. crit. Paléozool., XXVII, 151.
- Osburn, Raymond C.** 1903 A
Adaptation to aquatic, arboreal, fossorial and cursorial habits in mammals.
Amer. Naturalist, XXXVII, 651-665.
Notice in Neues Jahrb. Min. Geol. Pal., 1906, I, Ref., 134-136.
- 1906 A
Adaptive modifications of the limb skeleton in aquatic reptiles and mammals.
Ann. N. Y. Acad. Sci., XVI, 447-482, pls. vii-ix.
- 1906 B
The function of the fins of fishes.
Science (n.s.), XXIII, 585-587.
See also Bull. N. Y. Zool. Soc. No. 25, 347-348.
- 1907 A
The origin of vertebrate limbs. Recent evidence upon this problem from studies on primitive sharks.
Ann. N. Y. Acad. Sci., XVII, 415-436.
- 1907 B
Observations on the origin of the paired limbs of vertebrates.
Amer. Jour. Anat., VII, 171-194, pls. i-v.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 117-119.

- Osgood, W. H.** 1900 A
Revision of the pocket mice of the genus *Perognathus*.
N. A. Fauna, No. xviii, 1-72, pls. i-iv, 15 text-figs.
Reviewed in Science (n.s.), xxx, 119.
- 1905 A
Scaphoceros tyrrelli, an extinct ruminant from the Klondike gravels.
Smithson. Misc. Coll., xlviii, 173-183, pls. xxv-xlii.
Abstract in Rev. crit. Paléozool., 13, 74.
- 1905 B
Mastodon remains in the Yukon Valley.
Proc. Biol. Soc. Wash., xviii, 254-255.
- 1905 C
An extinct ruminant related to the musk-ox.
Science (n.s.), xxi, 788.
- 1905 D
Symbos, a substitute for *Scaphoceros*.
Proc. Biol. Soc. Wash., xviii, 223-224.
- 1907 A
A specimen of *Bison occidentalis* from northwest Canada.
Proc. Biol. Soc. Wash., xx, 65.
- 1909 A
Revision of the mice of the American genus *Peromyscus*.
N. A. Fauna, No. xxviii, 1-285, pls. i-viii, 12 text-figs.
Reviewed in Science (n.s.), xxx, 119-121; Amer. Naturalist, xliii, 633-639.
- 1913 A
The name of the Rocky Mountain sheep.
Proc. Biol. Soc. Wash., xxvi, 57-62.
- Osmont, Vance C.** 1904 A
A geological section of the coast ranges north of the Bay of San Francisco.
Bull. Dept. Geol. Univ. Calif., lv, 39-87, pls. vi, vii.
- Oswald, Ferdinand** 1851 A
Ueber einen Fund von siebenzehn Zähnen des *Ptychodus latissimus* in einer Plänerkalkgrube bei Teplitz.
Zeitschr. deutsch. Geol. Ges., iii, 531-535.
- Oswald, Felix** 1909 A
The degeneration of armour in animals.
Sci. Progress, 122-134, 23 illustrations.
Brief extract in Nature, lxxxix, 167.
- 1911 A
The sudden origin of new types.
Sci. Progress, v, 396-430, 20 text-figs.
- Otto, Hans** 1908 A
Die Beschuppung der Brevilinguier und Ascalaboten.
Jena. Zeitschr. Naturwiss., xlv (xxxvii), 193-252, pl. ix, 28 text-figs.
Appended is a bibliography of 27 titles.
- Owen, D. D.** 1856 A
Letter to Joseph Leidy regarding bones of *Megalonyx* found at Henderson, Ky.
Rep. Geol. Surv. Kentucky, i, 23.
- 1857 B
Mammoth bones, etc., at Eminence, Henry County [Kentucky].
Rep. Geol. Surv. Kentucky, iii, 100.
- Owen, Luella A.** 1926 A
Later studies on the loess.
Pan-Amer. Geol., xlv, 377-382.
- Owen, R.** 1839 E
A description of Viscount Cole's specimen of *Plesiosaurus macrocephalus*.
Ann. Nat. Hist., ii, 64-68.
- 1839 F
Description d'une dent et d'une portion de squelette du *Glyptodon*, grand quadrupède de l'ordre des édentés, auquel appartient l'armure osseuse tesselée figurée par M. Clift dans son mémoire sur les restes du mégathérium.
Ann. Sci. nat. (2), xii, 156-164.
Reprinted from Proc. Geol. Soc. Lond. 27, Feb. 1839.
- 1839 G
Recherches sur la structure et la formation des dents des squaloïdes, et application des faits observés à une nouvelle théorie du développement des dents.
Ann. Sci. Nat. (2), xii, 209-220, pl. ix.
Reprinted in Froriep's Neue Notizen, xvii, 1841, 84-87, figs. See also C. R. Acad. Paris, Dec. 16, 1839; Froriep's Notizen, xiii, 81-85.
- 1839 H
Sur la structure microscopique et le développement des dents des poissons gymnodontes.
Ann. Sci. Nat. (2), xii, 347-352.
- 1840 H
Sur la structure intime et le développement des dents poissons gymnodontes.
C. R. Acad. Sci. Paris, x, 74-78.

- Owen, R.—Continued 1840 I
A description of some of the soft part, with the integument of the hind-fin, of the *Ichthyosaurus*, indicating the shape of the fin when recent.
Proc. Geol. Soc. Lond., III, 157-158.
See also Froriep's Notizen, xvi, 1849, cols. 199-200.
- 1841 G
Outlines of a classification of the Marsupialia.
Trans. Zool. Soc. Lond., II, 315-333.
- 1841 H
On the osteology of the Marsupialia.
Trans. Zool. Soc. Lond., II, 379-408, pls. lxxviii-lxxi.
- 1842 F
On British fossil reptiles.
Edinb. New Philos. Jour., xxxiii, 65-88.
Reprinted from the report of the Plymouth meeting, Brit. Assoc. Adv. Sci., 1841, 191.
- 1842 G
Notes on the anatomy of the Nubian giraffe.
Trans. Zool. Soc. Lond., II, 217-248, pls. xl-xliv.
Osseous system on pages 234-239.
- 1843 C
Zoological summary of the extinct and living animals of the order Edentata.
Edinb. New Philos. Jour., xxxv, 353-361.
- 1843 D
Description of the fossil tympanic bones referable to four distinct species of *Balæna*.
Proc. Geol. Soc. Lond., IV, 283-286, 1 fig.
- 1844 B
Description of a fossil molar tooth of a mastodon discovered by Count Strzlecki in Australia.
Ann. Mag. Nat. Hist. (1), xiv, 268-271.
Describes *Mastodon australis*, on a specimen now believed to have been found in South America or Mexico.
- 1844 C
Characters of a new species of axolotl.
Ann. Mag. Nat. Hist. (1), xiv, 23, 1 fig.
- 1845 D
Abstracts in Edinb. New Philos. Jour., xxxix, 334-339; Quart. Jour. Geol. Soc., I, 318-322.
- 1845 E
Sur la classification et les analogies des dents molaires des carnivores.
Ann. Sci. Nat. (3), III, 116-128.
- Owen, R.—Continued 1845 F
Appendix to Professor Henslow's paper, consisting of a description of the fossil tympanic bones referable to 4 distinct species of *Balæna*.
Geol. Mag., I, 37-40, 1 fig.
- 1846 E
Lectures on the comparative anatomy and physiology of the vertebrate animals. Pt. I: Fishes.
8vo., i-xi+1-304 pages, 81 figs.
The bibliography presents 138 titles.
- 1848 B
The archetype and homologies of the vertebrate skeleton.
8vo., London, i-viii+1-203 pages, 2 pls., 3 tables, and 28 text-figs.
A reprint of Owen, R., 1847 B, with additional facts and illustrations.
- 1849 D
On the structure of the teeth of some fossil fish of the Carboniferous period.
Ann. Mag. Nat. Hist. (2), III, 41-42.
- 1851 C
For title and citation see Hay, O. P., 1902 A, p. 188. Abstracts in Lond. Edinb. Dublin Philos. Mag. (4), I, 250-253; Froriep's Tagsber., II, 97-101.
- 1851 D
Comparison of the modifications of the osseous structure of the *Megatherium*, with that in other known existing and extinct species of the class Mammalia.
Edinb. New Philos. Mag., LI, 350-357.
Translation in Froriep's Tagsber., II, 225-230.
- 1855 D
Note on some remains of an *Ichthyosaurus* discovered by Captain Sir Edward Belcher, C. B. R. N., at Exmouth Island in lat. 77° 16' N., long. 96° W.
In Belcher's The last of the Arctic voyages, II, 389-391, pl. xxxi, map.
- 1855 E
On the anthropoid apes and their relations to man.
Proc. Roy. Instn. G. Brit., II, 26-41.
- 1857 E
On the characters, principles of division, and primary groups of the class Mammalia.
Jour. Linn. Soc. Lond., II, 1-37, 6 text-figs.

Owen, R.—Continued

1857 F

On the affinities of the *Stereognathus ooliticus* (Charlesworth), a mammal from the Oolitic slate of Stonesfield.

Quart. Jour. Geol. Soc., XIII, 1-11. Also in Arch. Sci. Phys. Nat., xxxv, 191-205.

1857 G

On the fossil vertebra of a serpent (*Laophis crotaloides*, Ow.) discovered by Capt. Spratt, R. N., in a Tertiary formation in Salonica.

Quart. Jour. Geol. Soc., XIII, 196-199, pl. iv.

1858 A

On the characters, principles of division and primary groups of the class Mammalia.

Proc. Linn. Soc. Lond., Zool., II, 1-37, 6 text-figs.

1859 E

On the vertebral column of the order Pterosauria (Ow.) as exemplified in the genera *Pterodactylus* (Cuv.) and *Dimorphodon* (Ow.).

Proc. Roy. Soc. Lond., IX, 703-704 (Abstract).

1859 F

On some reptilian remains from South Africa.

Edinb. New Philos. Jour., x, 289-291.

1860 A

On the orders of fossil Reptilia and their distribution in time.

Rep. Brit. Assoc. Adv. Sci., XXIX, Aberdeen, 1859, 153-166.

1861 A

A monograph of a fossil dinosaur (*Scelidosaurus harrisonii* Owen) of the Lower Lias.

Palaeont. Soc. Mon. Brit. Foss. Reptilia of the Liassic formation. Pt. I, 1-14, pls. i-vi.

1862 B

On the cervical and lumbar vertebrae of the mole (*Talpa europæa*).

Rep. Brit. Assoc. Adv. Sci., 1861 (1862), 152-154.

1863 B

A monograph of a fossil dinosaur (*Scelidosaurus harrisonii* Owen) of the Lower Lias.

Palaeont. Soc. Mon.-Brit. Foss. Reptilia of the Liassic formation. Pt. II, 1-26, pls. 1-xi.

Owen, R.—Continued

1869 B

On the distinction between *Castor* and *Trogontherium*.

Geol. Mag., VI, 49-56, pl. iii, 4 text-figs.

1869 C

Description of a great part of a jaw with the teeth of *Strophodus medius*, Ow., from the Oolite of Caen, in Normandy.

Geol. Mag., VI, 193-196; 235-236, pl. vii, and a text-fig.

Abstract in Neues Jahrb. Min. Geol. Pal., 1870, 1035.

1869 D

On some Indian Cetacea collected by Walter Elliott, Esq.

Trans. Zool. Soc. Lond., VI, 17-47, pls. iii-xiv.

1869 E

Description of the cavern of Bruniquel, and its organic contents.

Phil. Trans. Roy. Soc. Lond., CLIX, pt. 1, 517-557, pls. lvii-lx, 9 text-figs.

1869 F

On the remains of a large extinct lama (*Palauchenia magna*, Ow.), from Quaternary deposits in the valley of Mexico.

Proc. Roy. Soc. Lond., XVII, 405-406.

1870 D

Monograph on the British fossil Cetacea of the Red Crag.

Palaeont. Soc. Mon., pp. 1-40, pls. i-iv, 14 text-figs.

Same as Owen, R., 1889 A, wrongly dated.

1873 B

Discussion on *Hypsilophodon foxii*.

Quart. Jour. Geol. Soc., XXIX, 531-532.

1876 D

Descriptive and illustrated catalogue of the fossil Reptilia of South Africa in the collection of the British Museum.

4to. London, i-xii+1-88 pages, pls. i-lxx.

1876 E

On the new modification of dinosaurian vertebrae.

Quart. Jour. Geol. Soc., XXXII, 43-46, pls. iv, v.

1878 E

On *Argillornis longipennis* Ow., a large bird of flight from the Eocene clay of Sheppey.

Quart. Jour. Geol. Soc., XXXIV, 124-130, pl. vi.

- Owen, R.**—Continued 1879 C
On *Hypsiprinnodon* Ramsay, a genus indicative of a distinct family (Pleopodidæ) in the diprotodont section of the Marsupialia.
Trans. Linn. Soc. Lond. (2), I, 573-582, pls. lxxi, lxxii, 3 text-figs.
- 1879 D
On the association of dwarf crocodiles (*Nannosuchus* and *Theriosuchus pusillus*, e. g.) with diminutive mammals of the Purbeck shales.
Quart. Jour. Geol. Soc., xxxv, 148-155, pl. ix.
- 1880 B
On the skull of *Argillornis longipennis* Ow.
Quart. Jour. Geol. Soc., xxxvi, 23-26, pl. ii.
- 1883 A
See Hay, O. P., 1902 A, p. 192.
Abstract in Ann. Mag. Nat. Hist. (5), II, 372.
- 1885 A
Note on the resemblance of the upper teeth of an Eocene mammal (*Neoplagiaulax* Lemoine) to those of *Tritylodon*.
Quart. Jour. Geol. Soc., xli, 28-29, figs. 1-3.
See also Geol. Mag. (3), II, 43-44.
- 1885 B
Note on remains of *Elephas primigenius* from one of the Creswell bone-caves.
Quart. Jour. Geol. Soc., xli, 31-33, 2 figs.
- Owen, Richard** (of America) 1862 A
Report of a geological reconnaissance of Indiana, 1859-1860.
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14; Geol. Zentralbl., xxx, 221-223.
- 1916 D
Human remains from the Pleistocene
of Florida.
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- 1916 E
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mains and extinct vertebrates at Vero,
Florida.
Jour. Geol., xxv, 4-24, 4 text-figs.
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few days before Jan. 1, 1917.
- 1916 F
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remains in Florida in association with
extinct vertebrates.
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- 1917 A
Further notes on human remains
from Vero, Florida.
Amer. Anthropol. (n.s.), xix, 239-251, figs.
40-44.
- 1917 B
Note on the deposits containing
human remains and artifacts at Vero,
Florida.
Jour. Geol., xxv, 659-660.
- 1917 C
Review of the evidence on which the
human remains found at Vero, Florida,
are referred to the Pleistocene.
Rep. Florida Geol. Surv., ix, 69-81, pls.
iv, figs. 1-3; pl. v, figs. 1, 2.
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- Sellards, E. H.—Continued 1917 D
 Supplement to studies in the Pleistocene at Vero, Florida.
 Rep. Florida Geol. Surv., ix, 83-143.
- 1917 E
 Plants and animals associated with human remains at Vero, Florida (Abstract).
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- 1917 F
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- 1918 A
 The skull of a Pleistocene tapir, including description of a new species and a note on the associated fauna and flora.
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- 1919 A
 The geology and mineral resources of Bexar County [Texas].
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- Selwyn, Alfred R. C. 1887 A
 Summary report of the operations of the Geological Survey for the year 1886.
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- Semon, Richard 1898 A
 Die Entwicklung der paarigen Flossen des *Ceratodus forsteri*.
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 Forms part of Semon's "Zool. Forschungsreisen."
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- 1899 B
 Weitere Beiträge zur Physiologie der Dipnoerflossen, auf Grund neuer, von Mr. Arthur Thomson, an gefangenen Exemplaren von *Ceratodus* angestellten Beobachtungen.
 Zool. Anz., xxii, 294-300, 1 fig.
- 1901 A
 Über das Verwandtschaftsverhältnis der Dipnoer und Amphibien.
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 For abstract see Neues Jahrb. Min. Geol. Pal., 1903, i, Ref., 158-159.
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- Sera, G. L. 1921 A
 La omologia del lacrimale dei primati.
 Riv. ital. Pal., xxvii, 45-49.
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- Serres, Marcel de 1835 A
 On the distinctive characters of the dog, the wolf and the fox, as supplied by the skeleton.
 Edinb. New Philos. Jour., xix, 244-253.
- 1852 A
 Des causes de la plus grande taille des espèces anciennes.
 Ann. Sci. nat. (3), xvii, 110-145.
- 1852 B
 Des causes de la plus grande taille des espèces fossiles aux races actuelles.
 Ann. Sci. nat. (3), xviii, 179-200.
- 1860 A
 Des espèces perdues et des races qui ont disparu des lieux qu'elles habitaient primitivement.
 Ann. Sci. nat. (4), xiii, 297-306.
- 1863 A
 Note sur deux articulations gingy-moidales nouvelles existant chez le *Glyptodon*.
 C. R. Acad. Sci. Paris, lvi, 885-888.
- 1863 B
 Deuxième note sur le développement de l'articulation vertébro-sternale du *Glyptodon* et les mouvements de flexion et d'extension de la tête chez cet animal fossile.
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- Seton, Ernest Thompson 1904 A
 The master plowman of the West. A study of pocket gophers.
 Cent. Mag., LXVIII (n.s. XLVI), 300-307, figs.
- 1906 A
 The wapiti and his antlers.
 Scribner's Mag., xxxix, 15-33, figs.
- 1906 B
 The moose and his antlers.
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Seton, Ernest Thompson—Cont'd 1906 C

The caribou and his kindred.

Scribner's Mag., xxxix, 426-443, many figs.

1906 D

The prong-horned antelope. The prong-buck of America (*Antilocapra americana* Ord.).

Scribner's Mag., xl, 33-49, many figs.

1906 E

The whitetailed (Virginia) deer and its kin.

Scribner's Mag., xl, 321-341, many figs.

1906 F

The American bison or buffalo. *Bison americanus* (Gmelin).

Scribner's Mag., xl, 385-405, many figs.

1909 A

Life histories of northern animals. An account of the mammals of Manitoba.

Vol. I: Grass-eaters, i-xxx+1-673 pages, pls. i-xlvi, text-figs. 1-182, maps 1-38. Vol. II: Flesh-eaters, i-xii+674-1267 pages, pls. xlvii-c; text-figs. 183-267, maps 39-68.

Sewertzoff, A. N.

1896 A

Die Entwicklung der Occipital-region der niederen Vertebraten im Zusammenhang mit der Frage über die Metamerie des Kopfes.

Bull. Soc. Natural. Moscou (n.s.), ix, 186-284, pls. iv, v, 4 text-figs.

There is a bibliography of 55 titles.

1897 A

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Anat. Anz., xiii, 409-425, 4 figs.

There is a bibliography of 8 titles.

1899 A

Studien zur Entwicklungsgeschichte des Wirbelthierkopfes. I: Die Metamerie des Kopfes des electrischen Rochen.

Bull. Soc. Natural. Moscou (n.s.), xii, 197-263; 393-455, pls. i-iv, 5 text-figs.

The bibliography comprises 39 titles.

1902 A

Zur Entwicklungsgeschichte des *Ceratodus forsteri*.

Anat. Anz., xxi, 593-608, 5 figs.

1904 A

Die Entwicklung der pentadaktylen Extremität der Wirbeltiere.

Anat. Anz., xxv, 472-494, 6 figs.

Abstract in Jahresber. Anat. Entwickl., Abth. 3, 113-114.

Sewertzoff, A. N.—Continued 1908 A

Studien über die Entwicklung der Muskeln, Nerven und des Skeletts der Extremitäten der niederen Tetrapoda.

Bull. Soc. Natural. Moscou (n.s.), xxi, 1-430, pls. i-vi, 34 text-figs.

The bibliography presents 90 titles.

Abstract in Nature, lxxix, 45.

1918 A

Development of gills and branchial vessels of fishes.

Rev. Zool. Russe, II, 206-208.

1923 A

Die Morphologie des Visceralapparates der Elasmobranchier.

Anat. Anz., lvi, 389-410.

1923 B

The place of the cartilaginous ganoids in the system and the evolution of the Osteichthyes.

Jour. Morphol., xxxviii, 105-145, 4 figs.

The bibliography consists of 15 titles.

Abstract in Neues Jahrb. Min. Geol. Pal., 1926, I, Ref., 75.

1924 A

The development of the dorsal fin of *Polypterus delhezi*.

Jour. Morphol., xxxviii, 551-580, 14 figs.

1925 A

Zur Morphologie des Schädels von *Polypterus delhezi*.

Anat. Anz., lix, 271-278, 6 figs.

1926 A

Studies on the bony skull of fishes. I: Structure and development of the bony skull of *Acipenser ruthenus*.

Quart. Jour. Micr. Sci., lxx, 451-540, 40 figs.

There are 29 titles in the bibliography.

1926 B

Development of the pelvic fins of *Acipenser ruthenus*. New data for the theory of the paired fins of fishes.

Jour. Morphol., xli, 547-579, 23 figs.

1926 C

Beiträge zu einer Theorie des knöchernen Schädels der Wirbeltiere.

Palaeont. Zeitschr., viii, 42-43, 44.

1926 D

Der Ursprung der Quadrupeda.

Palaeont. Zeitschr., viii, 75-95, 24 figs.

1926 E

The development of the scales of *Acipenser ruthenus*.

Jour. Morphol. Physiol., xlii, 523-560, figs. 1-38.

- Sewertzoff, A. N.**—Continued 1926 F
Über den Bau und die Funktion der Rippen von *Polypterus*.
Anat. Anz., LXI, 274-280, 2 figs.
- , and N. N. Disler 1924 A
Der Pharyngomandibulare der Sela-
chier.
Anat. Anz., LVIII, 345-349, 3 figs.
- Seydel, Otto** 1899 A
Ueber Entwicklungsvorgänge an
der Nasenhöhle und am Mundhöhlen-
dache von *Echidna*, nebst Beiträgen
zur Morphologie des peripheren
Geruchsorgans und des Gaumens der
Wirbelthiere.
Semon's "Zool. Forschungsr.," III, 445-532.
pls. xv, xvi, 31 text-figs.
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- Shaler, N. S.** 1870 A
Remarks upon the change in the
geographical distribution of the Amer-
ican buffalo.
Proc. Bost. Soc. Nat. Hist., XIII, 136.
- 1877 A
Notes on the investigation of the
Kentucky Geological Survey during
the years 1873, 1874, and 1875.
Rep. Geol. Surv. Kentucky, pt. i, III, 2nd
ser., 130-240.
Contains account of Big Bone Lick and
its fossil vertebrates.
- 1888 A
Habits of the great southern tor-
toise.
Pop. Sci. Month., XXXIV, 37-42.
- , and J. B. Woodworth 1899 A
Geology of the Richmond Basin,
Virginia.
Rep. U. S. Geol. Surv., XIX, pt. 2, 385-
519, pls. xviii-lII, text-figs. 90-116.
- Shaner, Ralph F.** 1926 A
The development of the skull of the
turtle, with remarks on fossil reptile
skulls.
Anat. Record, XXXII, 343-367, 16 figs.
The bibliography presents 18 titles.
- Shann, E. W.** 1919 A
The comparative myology of the
shoulder girdle and pectoral fin of
fishes.
Trans. Roy. Soc. Edinb., LII, 531-570, 4
pls., 1 text-fig.
The bibliography comprises 93 titles. The
paper deals principally with the muscula-
ture.
- Sharp, Katherine D.** 1903 A
The story of the *Dinichthys*.
Amer. Invent., x, 263.
- Sharpe, R. Bowdler** 1891 A
A review of recent attempts to
classify birds.
Internat. Ornith. Congr., II, Budapest,
1891, 1-90, 12 plates.
- Shattuck, George Burbank** 1904 A
Geological and geographical distri-
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cene.
Maryland Geol. Surv. Miocene. Text,
xciii-xxxxvii.
The list of vertebrate fossils is found on
pages xciv-xevii.
- , B. L. Miller and A. Bibbins 1907 A
Description of the Patuxent quad-
rangle.
Folio U. S. Geol. Surv., CLII, 1-12, 3 maps,
2 text-figs.
- Shaw, D. Mackintosh** 1917 A
Form and function of teeth: A
theory of "maximum shear."
Jour. Anat. Lond., LII, 97-106.
- Shaw, E. W., and T. E. Savage** 1912 A
Description of the Murphysboro and
Herrin [Ills.] quadrangles.
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maps, 13 text-figs.
- Shaw, James** 1873 A
Geology of Ogle County [Illinois].
Geol. Surv. Ill., v, 104-123.
- Sheldon, Pearl** 1915 A
Mastodon tusk in glacial gravels.
Science (n.s.), XLI, 98-99.
On a supposed mastodon tusk found near
Ithaca, New York.
- Shepard, Edward M.** 1898 A
A report on Greene County [Mis-
souri].
Geol. Surv. Missouri, XII, pt. i, 13-245,
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- Shepherd, C. E.** 1910 A
Pharyngeal teeth of fishes.
Zoologist (4), XIV, 418-425, pl. ii, 2 text-
figs.
- 1910 B
Comparisons of otoliths found in
fishes.
Zoologist (4), XIV, 292-298, 2 pls.
- 1911 A
The pharyngeal teeth of fishes.
Zoologist (4), xv, 132-141, 450-456, pls.
i, ii, 18 text-figs.
- 1912 A
The pharyngeal teeth of fishes.
Zoologist (4), xvi, 201-209, 450-459, 8 figs.

- Shepherd, C. E.**—Continued 1913 A
The pharyngeal teeth of fishes.
Zoologist (4), xvii, 138-146, 382-389, 7 figs.
- 1914 A
The pharyngeal teeth of fishes.
Zoologist (4), xviii, 262-272, 3 figs.
- 1916 A
Fossil otoliths.
Knowledge, London, xxxix, 177-184, 203-205, figs. 151-157.
A bibliography of 10 papers is furnished.
- Sherborn, S. W.**
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- Shiino, Kotaro** 1914 A
Das Chondrocranium von *Crocodylus* mit Berücksichtigung der Gehirnnerven und der Kopfgefäße.
Anat. Hefte, Arb., L, 253-382, pls. xv-xxi, 33 text-figs.
The appended bibliography comprises 46 titles.
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Über die Wirbelsäule und die Hüllen des Rückenmarks von *Cryptobranchus japonicus*.
Anat. Hefte, Arb., XLIV, 1-91, pls. i-v, 15 text-figs.
Appended is a bibliography of 48 titles.
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- Shimek, B.** 1902 A
The loess of Natchez, Miss.
Amer. Geologist, xxx, 279-299, pls. x-xvi.
- 1904 A
Papers on the loess. The loess of Natchez, Miss.; The loess and the Lansing man; The Lansing deposit, not loess; Loess and the Iowan drift. Evidences (?) of water deposition of Loess.
Bull. Nat. Hist. Iowa, v, 298-381, pls. i-xiv.
- 1908 A
Aftonian sands and gravels in western Iowa.
Science (n.s.), xxviii, 923.
- 1909 A
Aftonian sands and gravels in Iowa.
Bull. Geol. Soc. Amer., xx, 399-408, pls. xxxiii-xxxvii.
Abstract in Geol. Centralbl., xix, 35.
- 1910 A
Evidence that the fossiliferous gravel and sand beds of Iowa and Nebraska are Aftonian.
Bull. Geol. Soc. Amer., xxi, 119-140, pl. ii.
Abstract in Geol. Centralbl., xix, 35.
- Shimek, B.**—Continued 1910 B
Geology of Harrison and Monona Counties [Iowa].
Iowa Geol. Surv., xx, 273-485, 2 maps, pls. xxi-xli.
- 1912 A
Pleistocene of Sioux Falls, South Dakota, and vicinity.
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- Shimer, Hervey W.** 1903 A
Adaptations to aquatic, arboreal, fossorial and cursorial habits in mammals.
Amer. Naturalist, xxxvii, 819-825.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, I, Ref., 137-138; Naturw. Wochenschr., xx (N.F. iv), 101-105.
- 1914 A
Restoration of extinct reptiles.
Sci. Conspectus, iv, 108, 2 figs.
- Shitkov, B. M.** 1899 A
Über den Bau und die Entwicklung des Skelettes der freien Gliedmassen des *Isodactylum schrenkii* Strauch.
Zool. Anz., xxii, 246-257, 8 text-figs.
- , and **L. L. Sabanejew** 1909 A
Über *Ovis heinsii* Sewertz. und über den Bau der Hörner der Wildschafe.
Zool. Jahrb. Syst., xxviii, 457-472, 11 text-figs.
- Shore, Thomas W.** 1887 A
On the relations of the Mammalia to the Ichthyopsida and Sauropsida.
Jour. Anat. Physiol. Lond., xxi, 362-373.
- Short, Howard** 1914 A
Wing adjustments of pterodactyls.
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- Shufeldt, R. W.** 1881 F
The claw on the index digit of the Cathartidæ.
Amer. Naturalist, xv, 906-908.
- 1882 A
The number of bones at present known in the pectoral and pelvic limbs of birds.
Amer. Naturalist, xvi, 892-895.
- 1882 B
Concerning some of the forms assumed by the patella in birds.
Proc. U. S. Nat. Mus., vii, 324-331, 7 text-figs.

- Shufeldt, R. W.—Continued 1883 D
The habits of *Muraenopsis tridactylus* in captivity; with observations on its anatomy.
Science (o.s.), II, 159-163, 4 figs.
- 1884 B
Osteology of the large-mouthed black bass (*Micropterus salmoides*).
Sci. (o.s.), III, 532, 749, fig.
- 1885 C
A complete fibula in an adult living carinate bird.
Science (o.s.), v, 516, 1 text-fig.
- 1886 D
Feathered forms of other days.
Cent. Mag., IX, 352-365, 11 figs.
Reviewed in Amer. Naturalist, XXXVII, 1903, 34.
- 1887 A
A critical comparison of a series of skulls of the wild and domesticated turkeys.
Jour. Comp. Med. Surg., VIII, 207-222, 7 figs.
- 1889 D
Remarks upon the extinct mammals of the United States.
1-38 pages, 12 figs.
Reprinted from the American Field, XXXII, 1889, Nos. 17-22.
- 1890 D
Contributions to the study of *Heloderma suspectum*.
Proc. Zool. Soc. Lond., 1890, 148-214, pls. xvi-xviii.
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- 1891 D
On the question of saurognathism of the Pici and other osteological notes upon that group.
Proc. Zool. Soc. Lond., 1891, 122-129.
- 1891 E
On the comparative osteology of the United States Columbidae.
Ibis (6), VI, 194-196.
- 1893 B
On the mechanism of the upper mandible in the Scolopacidae.
Ibis (6), v, 563-565, 1 text-fig.
- 1893 C
Notes on palæopathology.
Pop. Sci. Month., XLII, 679-684, 2 text-figs.
- 1893 D
On the classification of the Longipennes.
Amer. Naturalist, XXVII, 233-237.
- Shufeldt, R. W.—Continued 1893 E
Notes on palæopathology.
Pop. Sci. Month., XLII, 679-684, 2 figs.
- 1895 A
On the osteology of certain cranes, rails, and their allies, with remarks upon their affinities.
Jour. Anat. Physiol. Lond., XXIX (n.s. IX), 21-34, 3 figs.
- 1896 A
Progress in American ornithology.
Amer. Naturalist, xxx, 357-372.
A review of The A. O. U. Check-list of North American birds.
- 1900 B
On the osteology of the Striges.
Proc. Amer. Philos. Soc., XXXIX, 665-722, pls. x-xvii, 6 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 435.
- 1900 C
On the osteology of the woodpeckers.
Proc. Amer. Philos. Soc., XXXIX, 578-622, pl. ix, 11 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 434-435.
- 1900 D
Professor Collett on the morphology of the cranium and the auricular openings in the North-European species of the family Strigidae.
Jour. Morphol., XVII, 119-176, pls. xv-xx, 7 text-figs.
- 1901 A
Osteology of the Herodiones.
Ann. Carnegie Mus., I, 158-249, pls. v, vi, 43 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 437.
- 1901 B
Osteology of the flamingoes.
Ann. Carnegie Mus., I, 295-324, pls. ix-xiv.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 438.
- 1901 C
Osteology of the cuckoos.
Proc. Amer. Philos. Soc., XL, 4-51, pls. i, ii.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 436.
- 1901 D
On the osteology of the pigeons (Columbæ).
Jour. Morphol., XVII, 487-511, pls. A. B., 4 text-figs.

- Shufeldt, R. W.—Continued** 1901 E
The skeleton of the black bass.
Bull. U. S. Fish Comm., XIX (1899), 1901, 311-320, pl. xlv, 8 text-figs.
- 1902 A
The osteology of the Steganopodes.
Mem. Carnegie Mus., I, 109-223, pls. xxi-xxx, 37 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 436-437.
- 1903 A
Osteology of the Limicolæ.
Ann. Carnegie Mus., II, 15-70, pl. i, 27 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 438.
- 1903 B
On the classification of certain groups of birds. (Supersuborders: Archornithiformes; Dromæognathæ; Odontoholcæ.)
Amer. Naturalist, XXXVII, 33-64, 2 text-figs.
- 1904 A
On the osteology and systematic position of the Pygopodes.
Amer. Naturalist, XXXVIII, 13-49, pl. i, 2 text-figs.
- 1904 B
An arrangement of the families and the higher groups of birds.
Amer. Naturalist, XXXVIII, 833-857, 6 text-figs.
- 1904 C
Comparison of the provisional schemes of the classification of birds.
Amer. Naturalist, XXXVIII, 311-319.
- 1907 A
On the osteology of the Tubinares.
Amer. Naturalist, XLI, 109-124, 2 text-figs.
- 1907 B
The flight of *Archæopteryx*.
Discovery, New York, I, 114.
- 1909 A
Osteology of birds.
1: Osteology of the Accipitres. Page 5.
2: Osteology of the Gallinæ. Page 169.
3: Osteology and classification of the Anseres. Page 249.
Bull. N. Y. State Mus., No. CXXX, 1-381, 26 plates, 145 text-figs.
- 1911 A
An arrangement of the families and the higher groups of the Mammalia.
Nyt Mag. Naturv., XLIX, 65-80.
- Shufeldt, R. W.—Continued** 1913 A
Contributions to avian paleontology.
Auk, XXX, 29-39, pl. iii.
- 1913 B
Review of the fossil fauna of the desert region of Oregon, with a description of additional material collected there.
Bull. Amer. Mus. Nat. Hist., XXXII, 123-178, pls. ix-xliii.
Abstracts in Rev. crit. Paléozool., XXI, 48; Geol. Zentralbl., XXI, 622.
- 1913 C
Further studies of fossil birds, with descriptions of new and extinct species.
Bull. Amer. Mus. Nat. Hist., XXXII, 285-306, pls. li-lix.
Paper announced in Science (n.s.), 306, with list of species, but no descriptions.
Abstracts in Sci. Progress, VIII, 638; Rev. crit. Paléozool., XXI, 48; Geol. Zentralbl., XXI, 238.
- 1913 D
Fossil feathers and some heretofore undescribed fossil birds.
Jour. Geol., XXI, 628-652, 12 text-figs.
Abstracts in Geol. Centralbl., XX, 704; Sci. Progress, VIII, 638.
- 1913 E
On the patella in the Phalacrocoracidae.
Proc. Zool. Soc. Lond., 1913, 393-402, pl. lxi.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XIX, pt. 3, 169.
- 1913 F
New and extinct birds and other species from the Pleistocene of Oregon.
Science (n.s.), XXXVII, 306-307.
Presents a list of 25 species.
- 1913 G
Extinct ostrich birds of the United States.
Aquila, XX, 411-422, pls. i-v. In Hungarian and English.
- 1913 H
The wild turkey and its hunting.
The Illustrated Outdoor World and Recreation, New York, XLVIII, 94-98; 146-147, 34 figs.
Articles written by R. W. Shufeldt for Edward A. McIlhenney, in part; in part by McIlhenney himself.
- 1914 A
The biggest bird that ever lived.
Scient. Amer., CX, 245-246, 329, fig. on cover.

- Shufeldt, R. W.—Continued 1914 B
On the skeleton of the ocellated turkey (*Agriocharis ocellata*) with notes on the osteology of other Melcagridæ.
Aquila, XXI, 1-52, 14 pls.
Printed in Hungarian and English.
Citations of the literature are in footnotes.
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- 1914 C
Contribution to the study of the "treeducks" of the genus *Dendrocygna*.
Zool. Jahrb. Syst., XXXVIII, 1-70, pls. i-xvi.
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- 1915 A
On a restoration of the base of the cranium of *Hesperornis regalis*.
Bull. Amer. Pal., v, 73-85 (1-13 of reprint), pls. i, ii.
For brief note on see Aquila, XXII (1915), 400.
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- 1915 B
A critical study of the fossil bird *Gallinuloides wyomingensis* Eastman.
Jour. Geol., XXXIII, 619-634, 2 text-figs.
For abstract see Aquila, XXII (1915), 399.
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- 1915 C
Comparative osteology of certain rails and cranes, and the systematic positions of the supersuborders Gruiformes and Ralliformes.
Anat. Record, IX, October, 1915, 731-750, 9 text-figs.
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- 1915 D
Fossil birds in the Marsh collection of Yale University.
Trans. Conn. Acad. Arts Sci., XIX, 1-110, pls. i-xv.
Abstracts in Aquila, XXII (1915), 398-399; Rev. crit. Paléozool., XX, 89.
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- 1915 E
On the taxonomy of the Procyonidæ.
Science (n.s.), XLI, 691-692.
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- 1915 F
The fossil remains of a species of *Hesperornis* found in Montana.
Auk, XXXII, 290-294, pl. xviii.
For brief note on this paper see Aquila, XXII (1915), 400.
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- 1915 G
Fossil remains of the extinct cormorant *Phalacrocorax maeropus* found in Montana.
Auk, XXXII, 485-488.
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- Shufeldt, R. W.—Continued 1916 A
Gilmore's restoration of *Ceratosaurus nasicornis*.
Scient. Amer. Suppl., No. 2098, 187, 1 text-fig.
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- 1916 B
Monster extinct reptiles. Some recent restorations at the National Museum.
Scient. Amer. Suppl., No. 2089, 40-42, 7 text-figs.
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- 1916 C
New extinct bird from South Carolina.
Geol. Mag., III, 343-347, pl. xv.
Abstracts in Geol. Zentralbl., XXIII, 445; XXVI, 379.
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- 1916 D
Fossil birds' eggs.
Emu, XVI, 80-91, pls. xxi-xxv.
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- 1916 E
Report on fossil birds from Vero, Florida.
Jour. Geol., XXV, 18-19.
Reprints of this paper were distributed a few days before Jan. 1, 1917. Reviewed in Auk, XXXIV, 357.
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- 1916 F
The restoration of *Podokesaurus holyokensis*.
Jour. Wash. Acad. Sci., VI, 258-259.
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- 1917 A
Observations on the osteology of the porcupine fish (*Diodon hystrix*).
Anat. Record, XI, 1-3.
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- 1917 B
Fossil birds found at Vero, Florida.
Rep. Florida Geol. Surv., IX, 35-42, pls. i, ii, text-figs. 1-25.
Abstract in Rev. crit. Paléozool., XXV, 15.
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- 1917 C
On the Government collection of fossil fishes.
Aquarium Bull., Nov. 1917, 49-51, a text-figure of *Priscacara dartoni*.
Included is a list, probably not wholly complete, of the fossil fishes in the U. S. National Museum.
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- 1917 D
Fossil remains of what appears to be a passerine bird from the Florissant shales of Colorado.
Proc. U. S. Nat. Mus., LIII, 453-455, pls. lx, lxi.
Described remains of a wholly indeterminate bird.

- Shufeldt, R. W.**—Continued 1918 A
Notes on some bird fossils from Florida.
Auk, xxxv, 357-358.
- 1920 A
Baker on the birds of the Pleistocene.
Auk, xxxvii, 634-635.
- 1921 A
Observations on the cervical region of the spine in chelonians.
Jour. Morphol., xxxv, 213-223, pls. i, ii.
- 1922 A
Remarkable changes in the skull of an American badger (*Taxidea taxus*) due to age.
Jour. Mamm., iii, 173-175, pl. x.
- 1924 A
The skull of the wolverine (*Gulo luscus*).
Jour. Mamm., v, 189-193, pls. xxi, xxii.
- Shuler, Ellis W.** 1917 A
Dinosaur tracks in the Glen Rose limestone, near Glen Rose, Texas.
Amer. Jour. Sci. (4), XLIV, 294-298, 3 figs.
Abstract in Geol. Zentralbl., xxv, 505.
- 1923 A
Occurrence of human remains with Pleistocene fossils, Lagow sand pit, Dallas, Texas.
Science (n.s.), LVII, 333-334.
- Shumard, B. F.** 1855 A
Description of a geological section, on the Mississippi River, from St. Louis to Commerce.
Geol. Surv. of Missouri, I, II, by G. C. Swallow, pt. ii, 139-184.
- 1863 A
Discovery in Texas of dicotyledonous leaves in Cretaceous strata and the existence of an extensive Miocene formation.
Trans. Acad. Sci. St. Louis, II, 140-141.
- 1873 A
S'te Genevieve and Jefferson Counties [Missouri].
Geol. Surv. Missouri, 1855-1871. Ralph Pumpelly, director. 290-313, maps.
- Sicher, Harry** 1916 A
Die Entwicklung des Gebisses von *Talpa europæa*.
Anat. Hefte, Arb., LIV, 31-112, pls. iii-vi, 20 text-figs.
The bibliography cites 13 papers.
- Siebenrock, F.** 1892 B
Ueber Wirbelassimilation bei den Sauriern.
Ann. naturh. Hofmus. Wien, VII, 373-378, 2 figs.
- 1900 A
Der Zungenbeinapparat und Kehlkopf sammt Luftröhre von *Testudo calcarata* Schneid.
Sitz.-Ber. Akad. Wiss. Wien, CIX, Abth. i, 441-448, 1 plate.
- 1901 A
Ueber die Verbindungsweise des Schultergürtels mit dem Schädel bei den Teleosteen.
Ann. naturh. Hofmus. Wien, XVI, 105-141, pls. iv-vi.
The bibliography comprises 73 titles.
- 1902 A
Zur Systematik der Schildkrötenfamilie Trionychidæ Bell, nebst Beschreibung einer neuen *Cyclanorbis*-Art.
Sitz.-Ber. Akad. Wiss. Wien, XCI, 807-846, 18 figures in the text.
Plastra of all the species are figured.
- 1906 A
Ergebnisse einer zoologischen Forschungsreise von Dr. Franz Werner nach Ägypten und im ägyptischen Sudan, iv, Krokodile und Schildkröten.
Sitz.-Ber. Akad. Wiss. Wien, CXV, Heft 6, 817-839, 8 figs.
- 1907 A
Die Schildkrötenfamilie Cinosternidæ. Monographisch bearbeitet.
Sitz.-Ber. Akad. Wiss. Wien, CXVI, Abth. 1, 527-599, pls. i, ii, 2 maps, 8 text-figs.
- 1909 A
Synopsis der rezenten Schildkröten, mit Berücksichtigung der in historischer Zeit ausgestorbenen Arten.
Zool. Jahrb., Suppl., x, 427-618.
- 1919 A
Emydura macquarrii Gray und der systematische Wert des Nuchalschildes bei den Schildkröten.
Zool. Anz., L, 273-277.
- 1923 A
Die nearktischen Trionychidæ.
Verh. zool.-bot. Ges. Wien, LXXIII, 180-194.

- Sieglbauer, Felix** 1909 A
Zur Anatomie der Schildkröten-
extremität.
Arch. Anat. Physiol. Leipzig., 183-280, pls.
vii-x, 4 text-figs.
Appended is a bibliography of 42 titles.
The paper deals almost wholly with the
muscles and nerves.
- 1911 A
Zur Entwicklung der Vogelex-
tremität.
Zeitschr. wiss. Zool., xcvi, 262-313, pls.
xiii, xiv, 16 text-figs.
This paper is followed by a list of 30
works on the subject.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xv, pt. 3, 176.
- Silliman, B., Sr.** 1831 A
Remarks on Cooper, Smith and
Dekay's report.
Amer. Jour. Sci. (1), xx, 371-372.
- Silliman, B.** 1855 A
On the subject of petrification.
Warren's *Monograph on Mastodon*, ed.
2, 221-222.
- Simoens, G.** 1902 A
Note sur *Helicoprion besonowi*
(Karpinsky).
Bull. Soc. belge Géol. (2), xiii, Pr. verb.,
235-243, 6 figs.
- Simpson, George Gaylord** 1924 A
The American triconodonts.
Geol. Soc. Amer. Prelim. lists, 1924, 39.
- 1925 A
American triconodonts.
Bull. Geol. Soc. Amer., xxxvi, 229 (Ab-
stract).
- 1925 B
Mesozoic Mammalia. I: American
triconodonts. II: *Tinodon* and its
allies. III: Preliminary comparison
of Jurassic mammals, except multi-
tuberculates.
Amer. Jour. Sci. (5), x, 145-165, 332-358,
451-470, 559-569, 40 figs.
On page 358 is a bibliography of 30 titles.
Abstracts in Neues Jahrb. Min. Geol. Pal.,
1926, 90-94.
- 1925 C
A Mesozoic mammal skull from
Mongolia.
Amer. Mus. Novit., cci, 1-11, 7 figs.
- 1925 D
Review of Johan Kiaer on "The
Downtonian Fauna of Norway. I:
Anaspida, etc."
Science (n.s.), LXII, 288-289.
- Simpson, George G.—Cont'd** 1926 A
Are *Dromatherium* and *Microcono-*
don mammals?
Science (n.s.), LXIII, 548-549.
- 1926 B
Pre-Cretaceous evolution of mam-
malian lower molars.
Bull. Geol. Soc. Amer., xxxvii, 238 (Ab-
stract).
- 1926 C
New reconstruction of *Lasanius*.
Bull. Geol. Soc. Amer., xxxvii, 397-402,
1 fig.
- 1926 D
Mesozoic Mammalia. IV: The mul-
tituberculates as living animals.
Amer. Jour. Sci. (5), xi, 228-250, 8 figs.
- 1926 E
The fauna of Quarry 9.
Amer. Jour. Sci. (5), xii, 1-11, 1 fig.
- 1926 F
American terrestrial Rhynchoceph-
alia.
Amer. Jour. Sci. (5), xii, 12-16, 2 figs.
- 1926 G
Mesozoic Mammalia. V: *Dromathe-*
rium and *Microconodon*.
Amer. Jour. Sci. (5), xii, 87-108.
- 1926 H
The age of the Morrison formation.
Amer. Jour. Sci. (5), xii, 196-216.
The bibliography presents 23 titles.
- 1926 I
Review of G. Heilmann's *Origin of*
Birds.
Amer. Jour. Sci. (5), xi, 453-454.
- 1926 J
Review of F. von Huene's *The*
carnivorous dinosaurs in the Jura and
Cretaceous formations, principally in
Europe.
Amer. Jour. Sci. (5), xii, 458.
- 1926 K
Review of David Black's *Asia and*
the dispersal of the Primates.
Amer. Jour. Sci. (5), xv, 459.
- 1927 A
Mammalian fauna of the Hell Creek
formation of Montana.
Amer. Mus. Novit., cclxvii, 1-7, 6 figs.
- 1927 B
Mammalian fauna and correlation
of the Paskapoo formation of Alberta.
Amer. Mus. Novit., cclxviii, 1-10.

- Simpson, George G.—Cont'd** 1927 C
Mesozoic Mammalia. VI: Genera of Morrison pantotheres.
Amer. Jour. Sci. (5), xiii, 409-416.
- 1927 D
Mesozoic Mammalia. VII: Taxonomy of Morrison multituberculates.
Amer. Jour. Sci. (5), xiv, 36-38.
- 1927 E
Tathiodon, new genus, to replace *Tanaodon* Simpson non Kirk.
Amer. Jour. Sci. (5), xiv, 71.
- 1927 F
Mesozoic Mammalia. VIII: Genera of Lance mammals other than multituberculates.
Amer. Jour. Sci. (5), xiv, 121-130.
- 1927 G
Mesozoic Mammalia. IX: The brain of Jurassic mammals.
Amer. Jour. Sci. (5), xiv, 259-268, 4 figs.
- 1928 A
A new mammalian fauna from the Fort Union of southern Montana.
Amer. Mus. Novit., ccxcvii, 1-15, 14 figs.
- 1928 B
Mesozoic Mammalia. XI: *Branatherium tendagurens* Dietrich.
Amer. Jour. Sci. (5), xv, 303-308, 2 figs.
- See also **Gregory and Simpson**.
- Sinclair, W. J.** 1901 A
The discovery of a new fossil tapir in Oregon.
Jour. Geol., ix, 702-707, 1 text-fig.
Abstract in Geol. Centralbl., ii, 762.
- 1903 A
A preliminary account of the exploration of the Potter Creek Cave, Shasta County, California.
Science (n.s.), xvii, 708-712.
Abstracts in Geol. Centralbl., ix, 639; Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 291.
- 1903 B
A new tortoise from the auriferous gravels of California.
Bull. Dept. Geol. Univ. Calif., iii, 243-248, two figures.
Abstract in Geol. Centralbl., v, 377.
- 1903 C
Mylogaulodon, a new rodent from the Upper John Day of Oregon.
Amer. Jour. Sci. (4), xv, 143-144, 1 text-fig.
Abstract in Geol. Centralbl., v, 39.
- Sinclair, W. J.—Continued** 1904 A
The exploration of the Potter Creek Cave.
Univ. of Calif. Publ. Amer. Arch. Ethn., ii, 1-27, pls. i-xiv.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, i, Ref., 125-127; Geol. Centralbl., vii, 617-618; Nature, lxxi, 472.
Condensed reprint in Records of the Past, iii, 1904, 275-282, figures.
- 1904 B
Note on fossils found in region of Main Walker River, Nevada.
Bull. Dept. Geol. Univ. Calif., iv, 10-11.
- 1905 A
New or imperfectly known rodents and ungulates from the John Day series.
Bull. Dept. Geol. Univ. Calif., iv, 125-143, pls. xiv, xviii.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 303-305; Geol. Centralbl., viii, 374; Rev. crit. Paléozool., x, 199.
- 1905 B
New Mammalia from the Quaternary caves of California.
Bull. Dept. Geol. Univ. Calif., iv, 145-161, pls. xix, xxiii.
Abstract in Geol. Centralbl., viii, 372; Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 298-299.
- 1905 C
The marsupial fauna of the Santa Cruz beds.
Proc. Amer. Philos. Soc., xlii, 73-81, pls. i, ii.
Abstract in Neues Jahrb. Min. Geol. Pal., 1907, i, 306-309.
- 1905 D
Mammalia of the Santa Cruz beds: Edentata, Insectivora, Glires.
Princeton Univ. Exped. Patagonia, 1896-1899, v, i-xi; 1-499, pls. i-lxxi, 49 text-figs.
Pages 1-106, pls. i-xvi, were published July 15, 1903; pages 107-226, pls. xvii-xxxv, Nov. 4, 1903; pages 227-364, pls. xxxvi-lxiii, Sept. 5, 1904; pages 365-499, pls. lxiv-lxxi, July 25, 1905. The bibliography is to be found on pages 487-489.
Reviewed in Nature, lxxv, 498-499.
Abstract in Sci. Progress, i, 449.
- 1906 A
Some edentate-like remains from the Mascall beds of Oregon.
Bull. Dept. Geol. Univ. Calif., v, 65-66, 3 text-figs.
Abstract in Geol. Centralbl., xii, 387.

- Sinclair, W. J.—Continued** 1906 B
Mammalia of the Santa Cruz beds: Marsupialia.
Princeton Univ. Exped. Patagonia, 1886-1899, iv, pt. 3, 333-460, pls. xl-lxv, 9 text-figs.
The extensive bibliography occupies pages 325-332.
Reviewed in *Nature*, LXXV, 498.
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- 1908 A
Recent investigations bearing on the question of the occurrence of Neocene man in the auriferous gravels of the Sierra Nevada.
Univ. Calif. Publ. Amer. Arch. Ethn., VII, 107-131, pls. xiii, xiv.
Abstract in *Geol. Centralbl.*, XII, 217.
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- 1910 A
Dermal bones of *Paramylodon* from the asphaltum deposits of Rancho La Brea, near Los Angeles, California.
Proc. Amer. Philos. Soc., XLIX, 191-195, 1 text-fig.
Abstracts in *Nature*, LXXXIII, 505; *Sci. Progress*, v, 674.
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- 1910 B
The restored skeleton of *Leptanchenia decora*.
Proc. Amer. Philos. Soc., XLIX, 196-199, 1 text-fig.
Abstracts in *Geol. Centralbl.*, xv, 650; *Sci. Progress*, v, 670.
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- 1912 A
Symposium on ten years progress in vertebrate paleontology. Contributions to geologic theory and method by American workers in vertebrate paleontology.
Bull. Geol. Soc. Amer., XXIII, 262-266.
For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Osborn, and Williston.
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- 1914 A
A revision of the bunodont Artiodactyla of the Middle and Lower Eocene of North America.
Bull. Amer. Mus. Nat. Hist., XXXIII, 267-295, 28 text-figs.
Abstracts in *Rev. crit. Paléozool.*, XXI, 53; *Geol. Zentralbl.*, XXVII, 222.
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- 1915 A
Additions to the fauna of the Lower Pliocene Snake Creek beds (Results of the Princeton University 1914 expedition to Nebraska).
Proc. Amer. Philos. Soc., LIV, 73-95, 18 text-figs.
Abstract in *Science* (n.s.), XLI, 839-840.
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- Sinclair, W. J.—Continued** 1917 A
A new labyrinthodont from the Triassic of Pennsylvania.
Amer. Jour. Sci. (4), XLIII, 319-321, 1 text-fig.
Brief abstracts in *Bull. Geol. Soc. Amer.*, XXVIII, 212; *Geol. Zentralbl.*, XXV, 44.
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- 1918 A
A large parasuchian from the Triassic of Pennsylvania.
Amer. Jour. Sci. (4), XLV, 457-462, text-figs. 1-10.
Abstract in *Geol. Zentralbl.*, XXV, 43.
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- 1921 A
The "turtle-Oreodon" layer, or "red layer." A contribution to the stratigraphy of the White River Oligocene.
Proc. Amer. Philos. Soc., LX, 457-466, pl. vii.
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- 1921 B
A new *Hoplophoneus* from the Titanotherium beds.
Proc. Amer. Philos. Soc., LX, 96-98, fig. 1.
Abstract in *Rev. crit. Paléozool.*, XXVII, 212.
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- 1921 C
Entelodonts from the big Badlands of South Dakota in the Geological Museum of Princeton University.
Proc. Amer. Philos. Soc., LX, 467-495, 22 text-figs.
Abstract in *Neues Jahrb. Min. Geol. Pal.*, 1923, I, 319.
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- 1922 A
Hyracodonts from the Big Badlands of South Dakota. The small entelodonts of the White River Oligocene.
Science (n.s.), LV, 654 (Abstract).
Abstract in *Rev. crit. Paléozool.*, XXVII, 212.
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- 1922 B
The small entelodonts of the White River Oligocene.
Proc. Amer. Philos. Soc., LXI, 53-64, 5 figs.
Abstract in *Rev. crit. Paléozool.*, XXVII, 211.
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- 1922 C
Hyracodonts from the Big Badlands of South Dakota.
Proc. Amer. Philos. Soc., LXI, 65-79, 8 figs.
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- 1924 A
The faunas of the concretionary zones of the Oreodon beds, White River Oligocene.
Proc. Amer. Philos. Soc., LXIII, 93-133, 10 figs.

- Sinclair, W. J.**—Continued 1925 A
The mounted skeleton of a new *Meshippus* from the Protoceras beds.
Proc. Amer. Philos. Soc., LXIV, 55-63, pl. iii.
- , and E. L. **Furlong** 1904 A
Euceratherium, a new ungulate from the Quaternary caves of California.
Bull. Dept. Geol. Univ. Calif., III, 411-418, pls. 50, 51, 1 text-fig.
Abstracts in Geol. Centralbl., VII, 426; Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 469-470; Geol. Mag. (5), I, 465.
- , and W. **Granger** 1911 A
Eocene and Oligocene of the Wind River and Bighorn basins.
Bull. Amer. Mus. Nat. Hist., XXX, 83-117, pls. iv-ix, 4 text-figs.
Abstract in Geol. Centralbl., XX, 694.
- 1911 B
Eocene and Oligocene of the Wind River and Big Horn basins.
Bull. Geol. Soc. Amer., XXII, 722-723 (Abstract).
- 1912 A
Notes on the Tertiary deposits of the Big-Horn basin.
Bull. Amer. Mus. Nat. Hist., XXXI, 57-67, pls. v, vi, 2 text-figs.
- 1914 A
Paleocene deposits of the San Juan basin, New Mexico.
Bull. Amer. Mus. Nat. Hist., XXXIII, 297-316, pls. xx-xxvii, 2 sheets presenting sections.
Abstract in Jour. Geol., XXIV, 305.
- , and G. L. **Jepsen** 1927 A
The skull of *Eusmilus*.
Proc. Amer. Philos. Soc., LXVI, 391-407, 8 figs.
- Sippel, W.** 1907 A
Das Munddach der Vögel und Säuger.
Morphol. Jahrb., XXXVII, 490-524, 1 plate, 12 text-figs.
This paper is preceded by a note and followed by another by A. Fleischman. There is a bibliography of 8 titles.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 82.
- Sirena, Santa** 1872 A
Über den Bau und die Entwicklung der Zähne bei den Amphibien und Reptilien.
Verh. phys.-med. Ges. Würzb. (N.F.), II, 124-144, pl. xi.
- Sisson, Septimus** 1910 A
A text-book of veterinary anatomy.
8vo., 1-826 pages, 588 ills.
The osteology occupies pages 19-168, figs. 1-317, and concerns that of the horse, the ox, the pig and the dog.
- Sixta, V.** 1899 A
Vergleichend-osteologische Bemerkung über den Schultergürtel des *Ornithorhynchus paradoxus* und der Eidechse *Uromastix spinifer*.
Zool. Anz., XXII, 329-336.
- 1900 A
Vergleichend-osteologische Untersuchung über den Bau des Schädels von Monotremen und Reptilien.
Zool. Anz., XXIII, 213-229, 3 text-figs.
- 1900 B
Der Monotremen- und Reptilien-Schädel.
Zeitschr. Morphol. Anthropol., II, 1900, 323-364, 13 text-figs.
- 1901 A
Vergleichend-osteologische Untersuchung über den Bau der Füße der Reptilien, Monotremen und Marsupialier. Mit kurzer Übersicht der neuen Litteratur, betreffend die anatomischen Beziehungen zwischen den Reptilien, Monotremen und Mammaliern.
Zool. Anz., XXIV, 321-332.
- 1905 A
Über den Ursprung der Säugetiere (Mammalia).
Zool. Anz., XXVIII, 671-678.
Note on in Knowledge, II, 608.
- Skinner, M. P.** 1922 A
The prong-horn.
Jour. Mamm., III, 82-105, pls. vi-ix, 1 text-fig.
The bibliography presents 23 titles.
- Skoda, K.** 1912 A
Anatomische Untersuchungen an einem Fall von Dydaktylie beider Schultergliedmassen beim Pferd.
Anat. Anz., XLI, 417-434, 5 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 178.
- Slade, D. D.** 1887 A
Osteological note.
Science (o.s.), IX, 460.
On rudimentary metacarpals in Bison.

- Sloan, Earle** 1908 A
Catalogue of the mineral localities of South Carolina.
Bull. Carol. Geol. Surv. (4), II, 1-505, pls. i-x; text-figs. 1-18, and a geognostic map.
- Slonaker, James Rollin** 1920 A
Some morphological changes for adaptation in the mole.
Jour. Morphol., xxxiv, 335-365, pls. i-iv. The bibliography occupies pages 364, 365.
- Smalian, C.** 1885 A
Beiträge zur Anatomie der Amphibieniden.
Zeitschr. wiss. Zool., XLII, 126-202, pls. v, vi.
In the bibliography are 34 titles.
- Smallwood, W. M.** 1903 A
The remains of bear and deer on the shores of Onondaga Lake.
Science (U.S.), XVIII, 26-27.
- Smith, Bertram G.** 1907 A
The life history and habits of *Cryptobranchus allegheniensis*.
Biol. Bull., XIII, 5-39, 14 figs.
There is a bibliography of 22 titles.
- Smith, Burnett** 1909 A
Note on the Miocene drum fish—*Pogonias multidentatus* Cope.
Amer. Jour. Sci. (4), XXVIII, 275-282, 13 text-figs.
Abstract in Geol. Centralbl., xv, 218.
- 1909 B
On some dinichthyid armor plates from the Marcellus shale.
Amer. Naturalist, XLIII, 588-597, 3 text-figs.
Abstract in Geol. Centralbl., xiv, 342.
- 1910 A
Notes on some little-known fishes from the New York Devonian.
Proc. Acad. Nat. Sci. Phila., LXII, 656-663, 2 text-figs.
Abstracts in Geol. Centralbl., xvii, 336; Sci. Progress, v, 692.
- 1914 A
A new locality for *Castoroides*.
Amer. Jour. Sci. (4), XXXVIII, 463-466, 1 text-fig.
- 1914 B
A review of the mammalian remains from the superficial deposits in the vicinity of Onondaga lake, New York.
Bull. N. Y. State Mus., CLXXI, 64-72, pls. 1-2.
- Smith, Dwight T.** 1904 A
The geology of the upper region of the Main Walker River, Nevada.
Bull. Dept. Geol. Univ. Calif., iv, 1-32, pls. i-iv.
- Smith, E. A.** 1894 A
Report on the geology of the coastal plain of Alabama.
Geol. Surv. Ala., 1894, i-xxiv+1-759 pages, illustrations.
- Smith, G. Elliot** 1903 A
The brain of the Archæoceti.
Proc. Roy. Soc. Lond., LXXI, 322-331, 4 text-figs.
Abstract in Geol. Centralbl., vi, 238.
- 1903 B
The brain of the Archæoceti.
Jour. Comp. Neur., XIII, 41-52, pls. i, ii, 4 text-figs.
- 1907 A
On the form of the brain in the extinct lemurs of Madagascar, with some remarks on the affinities of the Indrisinæ.
Trans. Zool. Soc. Lond., XVIII, 163-177, text-figs. 53-63.
This paper forms an appendix to one by H. F. Standing (Standing, H. F., 1907 A) on recently discovered subfossil Primates from Madagascar.
- 1907 B
On the relationship of lemurs and apes.
Nature, LXXVI, 7-8.
See Standing, H. F., 1907 B.
- 1911 A
The origin of mammals.
Nature, LXXXVIII, 293-294.
- 1912 A
Discussion on the origin of mammals.
Rep. Brit. Assoc. Adv. Sci., LXXXI, Portsmouth, 1911, 424-428.
- 1913 A
The evolution of man.
Rep. Smithson. Instn. for 1912, 553-572.
- 1915 A
Pre-Columbian representations of the elephant in America.
Nature, xcvi, 340-341, 1 fig.; 425, 501, 593, figs.
- 1916 A
Pre-Columbian representations of the elephant in America.
Nature, xcvi, 593-595, figs. 2, 3.
- 1916 B
Further notes on pre-Columbian representations of the elephant in America.
Mem. Manchester Soc. (Proc.), LX, xx-xxiii pages.

- Smith, G. Elliot**—Continued 1920 A
Discussion on the zoological position and affinities of *Tarsius*.
Proc. Zool. Soc. Lond., 1919 (1920), 465-475, 1 fig.
- 1922 A
Hesperopithecus: The ape-man of the western world.
London News, June 24, 1922, page 944 with figures. On the two preceding pages is a restoration of the creature by Forestier.
- Smith, George L.** 1915 A
The paleontology and stratigraphy of the Upper Carboniferous of Iowa.
Proc. Iowa Acad. Sci. xxii, 273-283.
- Smith, George Otis** 1903 A
Description of the Ellensburg quadrangle.
Folio U. S. Geol. Surv., lxxxvi, 1-7, maps.
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from White River, Utah.

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1924, I, 124; Geol. Zentralbl., xxix, 350.

1923 C
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don.

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xxx, 350.

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Peabody Museum.

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Nature, cxxii, 522.

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oregonensis Thorpe.

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1924 B
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1924 C
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from Oregon.

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1924 D
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1925 A
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dons.
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1906 A

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1815 A

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effosso, cui præmissæ elephantini
generis specierum distinctiones.

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1910 A

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ginia.

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Formation of the Quaternary deposits.
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The moraines of southeastern South Dakota and their attendant deposits.
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Kansas during the Ice Age.
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- 1875 B
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Proc. Roy. Soc. Lond., xxiii, 95-96.
- 1875 C
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Diplolophus, a new genus of rodents.
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 Amer. Jour. Sci. (5), V, 383-396, 22 figs.
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 The Bridger crocodiles.
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 Amer. Jour. Sci. (5), IX, 489-514, 15 figs.
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 Mechanics of crocodile vertebræ.
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 Science (o.s.), IV, 34.
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- 1884 B
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True, F. W.—Continued

1904 A

The whalebone whales of the western North Atlantic, compared with those occurring in European waters, with some observations on the species of the North Pacific.

Smithson. Contrib. Knowl., xxxiii, i-vii+1-332 pages, 50 pls., 97 text-figs.

There is a bibliography of 92 titles.

1905 A

Diagnosis of a new genus and species of fossil sea-lion from the Miocene of Oregon.

Smithson. Misc. Coll. (Quart.), XLVIII, 47-49.

Abstracts in Geol. Centralbl., VIII, 372; Knowl. Scient. News, II, 230.

1905 B

New name for *Pontoleon*.

Proc. Biol. Soc. Wash., XVIII, 253.

Proposes *Pontolis*.

1905 C

The first discovery of fossil seals in America.

Science (n.s.), XXII, 794.

Abstract in Geol. Centralbl., VIII, 373.

1906 A

Description of a new genus and species of fossil seal from the Miocene of Maryland.

Proc. U. S. Nat. Museum, xxx, 835-840, pls. lxxv, lxxvi.

Describes *Leptophoca lenis* and discusses the genera and species of extinct Phocidæ.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 439-440; Geol. Centralbl., XI, 379; Sci. Progress, I, 452; Rev. crit. Paléozool., x, 202.

1907 A

Remarks on the type of the fossil cetacean *Agorophius pygmaeus*.

Smithson. Instn. Publ. No. 1694, 1-8, pl. vi.

The plate illustrating this folio paper was prepared for Prof. Louis Agassiz, but was not published by him. It is entitled *Phocodon holmesii* Agass.

Abstract in Sci. Progress, II, 512.

1907 B

Observations on the type specimen of the fossil cetacean *Anoplouassa forcipata* Cope.

Bull. Mus. Comp. Zool., LI, 95-106, pls. i-iii.

Abstracts in Sci. Progress, II, 512; Rev. crit. Paléozool., XIV, 5.

True, F. W.—Continued

1908 A

Remarks on the fossil cetacean *Rhabdosteus latiradix* Cope.

Proc. Acad. Nat. Sci. Phila., LX, 24-29, pl. vi, 3 text-figs.

Abstracts in Sci. Progress, III, 457; Rev. crit. Paléozool., XIV, 7; XV, 85.

1908 B

On the classification of the Cetacea.

Proc. Amer. Philos. Soc., XLVII, 385-391.

1908 C

The fossil cetacean *Dorudon serratus* Gibbes.

Bull. Mus. Comp. Zool., LII, 63-78, pls. i-iii, 2 text-figs.

Abstract in Rev. crit. Paléozool., XIV, 6.

1908 D

On the occurrence of remains of fossil cetaceans of the genus *Schizodelphis* in the United States, and on *Priscodelphinus* (?) *crassangulum* Case.

Smithson. Misc. Coll. (Quart.), I, 449-460, pls. lix, lx.

Abstracts in Rev. crit. Paléozool., XIV, 4; XXI, 56; Sci. Progress, III, 458.

1909 A

A further account of the fossil sea lion *Pontolis magnus* from the Miocene of Oregon.

U. S. Geol. Surv. Profess. paper LIX, 143-148, pls. xxi-xxiii.

Presents a list of the hitherto described species of sea lions.

1909 B

Observations on living white whales, (*Delphinapterus leucas*) with a note on the dentition of *Delphinapterus* and *Stenodelphis*.

Smithson. Misc. Coll., LII, 325-330, pl. xxviii.

Abstract in Rev. crit. Paléozool., XIV, 5.

1909 C

A new genus of fossil cetaceans from Santa Cruz territory, Patagonia; and description of a mandible and vertebræ of *Prosqualodon*.

Smithson. Misc. Coll., LII (Quart. Iss., v), 441-456, pls. xliii-xlv, 3 text-figs.

Abstract in Sci. Progress, IV, 664.

1910 A

An account of the beaked whales of the family Ziphiidæ in the collection of the United States National Museum, with remarks on some specimens in other American museums.

Bull. U. S. Nat. Mus., LXXIII, 1-89, pls. i-xlii.

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Description of a skull and some vertebræ of the fossil cetacean *Diochoticus vanbenedini* from Santa Cruz, Patagonia.
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- 1911 A
The origin of the porpoises of the family Delphinidæ.
Science (n.s.), xxxiii, 908.
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Discovery of a fossil delphinoid cetacean, with tuberculate teeth.
Proc. Biol. Soc. Wash., xxiv, 37-38.
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The genera of fossil whalebone whales allied to *Balæonoptera*.
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A fossil toothed cetacean from California, representing a new genus and species.
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Description of *Mesoplodon mirum*, a beaked whale recently discovered on the coast of North Carolina.
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 There is a list of 5 papers.
 Abstract in Geol. Zentralbl., xxxii, 119.
- 1924 A
 Aus dem Leben der Flugsaurier.
 Bull. Geol. Instn. Upsala, xix, 115-127, 1 fig.
 There are 13 titles in the bibliography.
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- 1925 A
 Ueber *Pterodactylus westmani* und andere Flugsaurier.
 Bull. Geol. Instn. Upsala, xx, 1-38, 2 pls., 23 text-figs.
 The bibliography presents 25 titles.
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- 1925 B
 Über einige Flugsaurier.
 Palaeont. Zeitschr., vii, 15-20, 1 fig.
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- Winans, Walter** 1916 A
 [Letter on Gilmore's restoration of extinct reptiles.]
 Scient. Amer. Suppl., No. 2098, 187.
- Winchell, Alexander** 1861 A
 First biennial report of the progress of the geological survey of Michigan embracing observations on the geology, zoology, and botany of the lower peninsula. Lansing, 1861.
- 1870 A
 Notes on some Post-Tertiary phenomena in Michigan.
 Amer. Naturalist, iv, 504-505.
 Read at the Amer. Assoc. Adv. Sci. at Troy. Records finding of *Castoroides*, mammoth and mastodon.
- Winchell, Newton H.** 1874 A
 Report on the geology of Crawford County [Ohio].
 Geol. Surv. Ohio, ii, pt. 1, 236-252, with map.
- 1874 B
 Report on the geology of Putnam County [Ohio].
 Geol. Surv. Ohio, ii, pt. i, 388-396, and map.
- 1878 A
 Primitive man at Little Falls.
 Rep. Geol. Nat. Hist. Surv. Minn., vi, 53-64.
 Contains mention of mastodon and elephant.
- 1880 A
Castoroides ohioensis Foster.
 Rep. Geol. Nat. Hist. Surv. Minn., viii, 181-183, with plates.
- 1882 A
 The Museum [of University of Minnesota].
 Rep. Geol. Nat. Hist. Surv. Minn., x, 145-148.
 Elephant's teeth from Montana.
- 1885 A
 Fossil elephant in Winona County [Minn.].
 Rep. Geol. Nat. Hist. Surv. Minn., xiii, 147-149.
- 1888 A
 The geology of Hennepin County [Minn.].
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 On page 306 is account of remains of *Castoroides ohioensis*.
- 1888 B
 Mastodon and man in Washington County [Minn.].
 Final Rep. Geol. Surv. Minn., ii, 397-398.
 Tusk of mastodon supposed to be associated with pottery.
- 1903 A
 Was man in America in the Glacial period?
 Bull. Geol. Soc. Amer., xiv, 133-152, 1 text-fig.
- 1905 A
 Review of papers by Netta C. Anderson and Johann A. Udden.
 Amer. Geologist, xxxvi, 258-261.

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- 1910 A
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Abstract in Geol. Centralbl., xvii, 37.
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- 1917 A
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- Winckler, T. C.** 1871 B
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- 1876 A
Mémoire sur quelques restes de poissons du system heersien.
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- Wincza, H.** 1890 A
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- Windle, Bertram, C. A.** 1890 A
On some cranial and dental characters of the domestic dog.
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Anat. Hefte. Ergebn., xiv, 1049-1065.
The bibliography presents 45 titles.
- Winge, Herluf** 1895 A
See Hay, O. P., 1902 A, page 242.
Abstract by Schlosser in Neues Jahrb. Min. Geol. Pal., 1898, ii, Ref., 507-509.
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- 1896 A
Carnivores fossiles et vivants de Lagoa Santa, Minas Geraes, Brésil.
E. Mus. Lund., ii, pt. iv, 105-130.
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- 1904 A
Om jordfundne Pattedyr fra Danmark.
Vid. Medd. nat. For. Kjobenh., 1904, 193-304, pls. vii-xiii.
- Winge, Herluf**—Continued 1906 A
Jordfunde og nulevende Hovdyr (Ungulata) fra Lagoa Santa, Minas Geraes, Brasilien, Med Udsigt over Hovdyrenes indbyrdes-Slaegtskab.
E. Mus. Lund., iii, pt. 1, 1-239.
There are numerous references to the literature of the subject.
Abstract in Neues Jahrb. Min. Geol. Pal., 1907, ii, 134-136.
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Om *Plesiocetus* og *Squalodon* fra Danmark.
Vid. Medd. nat. For. Kjobenh., 1909 (1910), 1-38, pls. i, ii.
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- 1915 A
Jordfunde og nulevende Gumlere (Edentata) fra Lagoa Santa, Minas Geraes, Brasilien. Med Udsigt over Gumlernes indbyrdes Slaegtskab.
E. Mus. Lundii, iii, pt. 2, 1-321, pls. i-xlii.
On pages 261-313 are found notes and references to the works of authors who have written on the subject.
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- 1917 A
Udsigt over Insectaedernes indbyrdes Slaegtskab.
Vid. Medd. nat. For. Kjobenh., lxxviii, 83-203.
There are numerous references to the literature of the subject.
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- 1919 A
Udsigt over Hvalernes Slaegtskab.
Vid. Medd. nat. For. Kjobenh., lxxx, 59-142.
There are copious citations of the literature of the subject. See Winge and Miller, 1921 A.
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- 1923 A
Pattedyr-Slaegter. I: Monotremata, Marsupialia, Insectivora, Chiroptera, Edentata.
Copenhagen, 1923, i-viii+1-360 pages, pl. iii.
There are numerous references to the literature of the subject.
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8vo., Copenhagen, 1-321 pages.
Pages 92 to 172, 214 to 241, 279 to 309 are occupied by notes and by abstracts of the systematic literature.

- Winge, Herluf, and G. S. Miller—**
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A review of the interrelationships of the Cetacea.
Smithson. Misc. Coll., LXXII, No. 8, 1-97.
A translation, made by Gerrit S. Miller, of Winge's paper "Udsigt over Hvalernes indbyrdes Slaegtskab." Winge's paper was published, 1918, in Vid. Medd. nat. For. Kjobenh., vol. LXX, 59-142 (Winge H., 1919 A). In the "Notes," pages 47-93, are numerous references to the literature.
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Remarks on fossil mammalian remains in San Francisco.
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- Winslow, Guy Monroe** 1898 A
The chondrocranium in the Ichthyopsida.
Tufts Coll. Stud., No. 5, 147-201, pls. i-iv.
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- Winton, W. E. de** 1897 A
Remarks on the existing forms of giraffe.
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With numerous citations of the literature.
- Wintrebert, P.** 1910 A
Sur le déterminisme de la métamorphose chez les amphibiens.
C. R. Soc. Biol., LXVIII.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XVI, 89-91, 300-302, 419-420, 1081-1083.
- 1910 B
Sur le déterminisme de la métamorphose chez les batraciens.
C. R. Soc. Biol., LXIX, 78-80, 129-131, 172-174, 226-228.
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- Wissler, Clark** 1916 A
The present status of the antiquity of man in North America.
Scient. Monthly, II, 234-238.
- Witter, F. M.** 1880 A
Some geological features near Muscatine.
Proc. Iowa Acad. Sci., 1875-1880, 16.
Read May 24, 1878. Mentions finding of almost entire remains of *Rangifer caribou* in the loess at Muscatine.
- 1890 A
Some additional observations on the loess in and about Muscatine.
Proc. Iowa Acad. Sci., 1887 (1889), 45.
- Witter, F. M.—Continued** 1892 A
Notice of arrow points from the loess in the city of Muscatine.
Proc. Iowa Acad. Sci., 1890-91, 66-68.
Mentions finding of remains of two American reindeer and the antlers of some species of deer in loess; also tooth of elephant.
- 1892 B
Arrow points from the loess at Muscatine, Iowa.
Amer. Geologist, IX, 276-277.
- Wood, Horace Elmer** 1923 A
The problem of the *Uintatherium* molars.
Bull. Amer. Mus. Nat. Hist., XLVIII, 599-604, 4 figs.
Abstract in Geol. Zentralbl., XXX, 440.
- 1924 A
The position of the "sparassodonts": with notes on the relationships and history of the Marsupialia.
Bull. Amer. Nat. Hist., LI, 77-101, 2 tab'es, 57 figs.
The bibliography contains 21 titles.
- 1926 A
Some early Tertiary rhinoceroses and hyracodonts.
Bull. Geol. Soc. Amer., XXXVII, 238-239 (Abstract).
- 1927 A
Hoplophoneus mentalis, and cusp homologies in cats.
Jour. Mamm., VIII, 296-302.
The bibliography presents 28 titles.
- 1927 B
Some early Tertiary rhinoceroses and hyracodonts.
Bull. Amer. Pal., XIII (No. 50), 3-89, pls. i-vii, 8 tables.
The bibliography presents 74 titles.
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Two undescribed specimens of *Castoroides ohioensis* Foster from Michigan.
Science (n.s.), XXXIX, 759.
- Woodhull, A. A.** 1872 B
Discovery of the tusk of an elephant in Colorado.
Amer. Jour. Sci. (3), III, 373-374.
See Berthoud, E. L., 1872 A.
- Wood-Jones, F.** 1920 A
Discussion on the zoological position and affinities of *Tarsius*.
Proc. Zool. Soc. Lond., 1919 (1920), 491-494.

- Woodruff, Elmer Grant** 1906 A
The geology of Cass County, Nebraska.
Neb. Geol. Surv., II, 169-292, pls. i-xx, 33 text-figs.
A list of the remains of sharks is presented and figures of most of them.
- Woodward, A. Smith** 1887 B
Abstract in Geol. Mag. (3), IV, 90.
- 1888 I
Abstract and list in Geol. Mag. (3), V, 139-142.
- 1888 K
Note on the early Mesozoic ganoid *Belonorhynchus*, and on the supposed Liassic genus *Amblyurus*.
Ann. Mag. Nat. Hist. (6), I, 354-356.
- 1888 L
On some remains of *Squatina cranei* sp. nov., and the mandible of *Belonostomus cinctus* from the Chalk of Sussex.
Quart. Jour. Geol. Soc., XLIV, 144-148, pl. vii.
- 1888 M
On two new lepidotid ganoids from the early Mesozoic deposits of Orange Free State, South Africa.
Quart. Jour. Geol. Soc., XLIV, 133-143, 270, pl. vi.
- 1888 N
Dr. Georg Baur on fossil Chelonia.
Geol. Mag. (3), V, 373.
- 1888 O
Remarks on a note by G. Baur on the pleurodiran chelonians.
Ann. Mag. Nat. Hist. (6), II, 352-354.
- 1889 I
Notes on the teeth of sharks and skates from the English Eocene formations.
Proc. Geol. Assoc. XVI, 1-14, pl. i, 2 text-figs.
- 1889 J
On the so-called Cretaceous lizard, *Rhaphiosaurus*.
Ann. Mag. Nat. Hist. (6), IV, 350-351.
In the bibliography 9 titles are cited.
- 1889 K
On the occurrence of the Devonian ganoid *Onychodus* in Spitzbergen.
Ann. Mag. Nat. Hist. (6), IV, 407.
- Woodward, A. Smith—Cont'd** 1890 E
Review of J. S. Newberry's "Triassic fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley." Newberry, J. S., 1888 A.
Nature, XLII, 366-367.
- 1890 F
Review of J. S. Newberry's "The palaeozoic fishes of North America." Newberry, J. S., 1889 A.
Nature, XLIII, 146-147.
- 1890 G
The fossil sturgeon of the Whitby Lias.
Naturalist, 1890, 101-107, 8 figs.
- 1890 H
On two groups of teeth of the Cretaceous selachian fish *Ptychodus*.
Rep. Yorksh. Philos. Soc., 1889 (1890), 38-41, pl. 1.
- 1891 A
Review in Geol. Mag. (3), VIII, 123-129.
- 1891 E
The hybodont and cestraciont sharks of the Cretaceous period.
Proc. Yorksh. Geol. Polyt. Soc. (n.s.), XII, 62-68, pls. i, ii.
- 1891 F
The Devonian fish-fauna of Spitzbergen.
Ann. Mag. Nat. Hist. (6), VIII, 1-15, pls. i-iii.
- 1891 G
Pholidophorus germanicus: An addition to the fish fauna of the Upper Lias of Whitby.
Geol. Mag. (3), VIII, 545-546.
- 1892 H
Doubly armoured herrings.
Ann. Mag. Nat. Hist. (6), X, 412-413.
- 1892 I
Description of the Cretaceous saw-fish *Sclerorhynchus atavus*.
Geol. Mag. (3), IX, 429-534, 1 fig.
- 1893 F
Some Cretaceous fishes.
Ann. Mag. Nat. Hist. (3), X, 433-436, 487-493, plates xvi, xvii.

- Woodward, A. Smith—Cont'd** 1894 C
On some fish-remains of the genera *Portheus* and *Cladocyclus* from the Rolling Downs formation (Lower Cretaceous) of Queensland.
Ann. Mag. Nat. Hist. (6), xiv, 444-447.
Abstract in Neues Jahrb. Min. Geol. Pal., 1898, II, Ref., 329.
- 1895 F
On the development of the teeth in certain Insectivora (Abstract).
Rep. Brit. Assoc. Adv. Sci., LXV, Ipswich, 1895, 736.
- 1895 G
A synopsis of the remains of ganoid fishes from the Cambridge Greensand.
Geol. Mag. (4), II, 207-214, pl. viii, 4 text-figs.
- 1896 D
On the quadrate bone of a gigantic pterodactyl discovered in the Cretaceous of Bahia, Brazil.
Ann. Mag. Nat. Hist. (6), xvii, 255-257.
- 1896 E
Note on the affinities of the English Wealden fish-fauna.
Geol. Mag. (4), III, 69-71.
- 1897 B
The ostracoderms of Professor Cope.
Nat. Sci., XI, 144.
- 1897 C
Edward Drinker Cope.
Nat. Sci., x, 377-381, with portrait.
- 1897 D
On a new specimen of stegocephalan, *Ceraterpeton galvani* Huxley, from the Coal measures of Castlecomer, Kilkenny, Ireland.
Geol. Mag. (4), iv, 293-298, pl. xii. Abstract in Neues Jahrb. Min. Geol. Pal., 1898, II, Ref., 333.
- 1897 E
On a new specimen of the Mesozoic ganoid fish *Pholidophorus* from the Oxford Clay of Weymouth.
Proc. Dorset Nat. Hist. Antiquar. Field Club, xviii, 150-152, with plate.
- 1898 B
Reviewed in Sci. Progress, vii, App., xli-xlv; Geol. Mag. (4), v, 367-373.
- 1898 C
The antiquity of the deep-sea fish-fauna.
Nat. Sci., xii, 257-260, pl. x.
Abstract in Rev. crit. Paléozool., iv, 111-112.
- Woodward, A. Smith—Cont'd** 1898 D
The history of the Mammalia in Europe and North America.
Nat. Sci., xii, 328-336.
- 1898 E
The imperfection of the geological record.
Nat. Sci., xiii, 327-332.
- 1898 F
Preliminary note on a new specimen of *Squatina* from the lithographic stone of Nusplingen, Würtemberg.
Geol. Mag. (4), v, 289-291, pl. x, 1 text-fig.
- 1898 G
Note on a Devonian cœlacanth fish.
Geol. Mag. (4), v, 529-531, 1 fig.
- 1898 H
Notes on some type specimens of Cretaceous fishes from Mount Lebanon, in the Edinburgh Museum of Science.
Ann. Mag. Nat. Hist. (7), II, 405-414.
- 1899 C
On the Cretaceous fish *Plethodus*.
Ann. Mag. Nat. Hist. (7), III, 353-361, pls. xiii, xiv.
- 1899 D
The supposed existing ground-sloth of Patagonia.
Nat. Sci., xv, 351-354.
- 1899 E
Note on *Scapanorhynchus*, a Cretaceous shark apparently surviving in Japanese seas.
Ann. Mag. Nat. Hist. (7), III, 487-489.
Abstract in Rev. crit. Paléozool., iv, 115.
- 1899 F
A supposed existing ground-sloth in Patagonia.
Geol. Mag. (4), vi, 226-228.
- 1900 B
Abstract in Geol. Centralbl., I, 603.
- 1900 E
Report upon fish remains.
Summ. Rep. Geol. Surv. Canada for 1899, 203-204.
- 1900 F
Helicoprion—spine or tooth?
Geol. Mag. (4), vii, 33-36.
- 1900 G
On some remains of *Grypotherium* (*Neomyiodon*) *listai* and associated mammals from a cavern near Consuelo Cave, Last Hope Inlet, Patagonia.
Proc. Zool. Soc. Lond., 1900, 64-79, pls. v-ix.

- Woodward, A. Smith—Cont'd 1900 H
Notes on some upper Devonian fish-remains discovered by Prof. A. G. Nathorst in East Greenland.
Bihang svenska Vet. Akad. Handl., xxvi, Afd. iv, No. 10, 1-10, 1 pl.
Abstracts in Geol. Centralbl., x, 729; Rev. crit. Paléozool., ix, 189.
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- 1901 A
Catalogue of the fossil fishes in the British Museum. Part IV: Containing the actinopterygian Teleostomi of the suborders Isospondyli (in part), Ostariophysi, Apodes, Peresoces, Hemibranchii, Acanthopterygii, and Anacanthini.
8vo., i-xxxviii+1-636 pages, pls. i-xix, 22 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 134-136; Geol. Centralbl., II, 667-669.
Review in Rev. crit. Paléozool., vi, 59-65; Geol. Mag. (4), ix, 133-138.
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- 1901 B
On some extinct reptiles from Patagonia, of the genera *Miolania*, *Dinilyisia*, and *Gonyodectes*.
Proc. Zool. Soc. Lond., 1901, 169-184, pls. xv-xx.
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- 1901 C
Notes on fossil fishes found in the Knoydart formation, Nova Scotia.
Bull. Geol. Soc. Amer., xii, 311-312.
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- 1902 A
Description and comparison of the specimen [of *Grypotherium*].
Pritchard's "Through the heart of Patagonia," pp. 305-330; with 2 figures.
Describes and figures the skin of a mylodont found in cave in Patagonia.
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- 1902 B
On two skulls of the ornithosaurian *Rhamphorhynchus*.
Ann. Mag. Nat. Hist. (7), ix, 1-5, pl. i.
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- 1902 C
On an amioid fish (*Megalurus mawsoni* sp. n.) from the Cretaceous of Bahia, Brazil.
Ann. Mag. Nat. Hist. (7), ix, 87-89, pl. ii.
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- 1902 D
Report on fish remains.
Rep. Geol. Surv. Canada, 1899, xii, 203.
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- Woodward, A. Smith—Cont'd 1902 E
Note sur l'*Helicoprion* et les "édes-tides."
Bull. Soc. belge Géol. (2), xiii, Proc.-verb., 230-234, fig. 4.
Followed by discussion by Van de Wiele, Kemna, Dubois, and Simoens.
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- 1903 A
The new mammoth at St. Petersburg.
Nature, lxxviii, 297-298, 2 text-figs.
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- 1903 B
The mammoth.
Geol. Mag. (4), x, 361-363.
A review of three papers on the mammoth found on the Beresowka River in Siberia.
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- 1903 C
On the Carboniferous ichthyodonte *Listracanthus*.
Geol. Mag. (4), x, 486-488, 9 text-figs.
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- 1904 A
On the jaws of *Ptychodus* from the Chalk.
Quart. Jour. Geol. Soc., lx, 133-136, pl. xv, 1 text-fig.
Abstracts in Geol. Centralbl., v, 484; Rev. crit. Paléozool., viii, 159.
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- 1904 B
On the jaws of *Ptychodus* from the Chalk.
Geol. Mag. (5), i, 139-140.
Abstract of Woodward, A. S., 1904 A.
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- 1904 C
Some recent discoveries concerning the teeth of extinct animals.
Trans. Odont. Soc. G. Brit. (n.s.), xxxvi, 185-198, 6 text-figs.
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- 1904 D
On two new labyrinthodont skulls of the genera *Capitosaurus* and *Aphaneramma*.
Proc. Zool. Soc. Lond., II, 170-176, pls. xi, xii, text figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, I, Ref., 150; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 162.
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- 1905 A
On parts of the skeleton of *Cetiosaurus leedsi*, a sauropodous dinosaur from the Oxford Clay of Peterborough.
Proc. Zool. Soc. Lond., 1905, I, 232-243, text-figs. 39-49.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, I, Ref., 462; Rev. crit. Paléozool., xi, 12.
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- 1906 A
The relations of palæontology to biology.
Ann. Mag. Nat. Hist. (7), xviii, 312-318.
Abstract in Rev. crit. Paléozool., xi, 95-97.

- Woodward, A. Smith—Cont'd 1906 B**
 On two specimens of *Ichthyosaurus* showing contained embryos.
 Geol. Mag. (5), III, 443-444, pl. xxiv.
 Abstracts in Rev. crit. Paléozool., XI, 76;
 Geol. Centralbl., IX, 137; Sci. Progress, I, 459.
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- 1906 C**
 The study of fossil fishes.
 Proc. Geol. Assoc., XIX, 266-282, figs. 1-15.
 Abstracts in Nature, LXXIV, 597-599, figs. 1-3; Geol. Centralbl., VIII, 751-752; Rev. crit. Paléozool., XI, 77-82.
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- 1906 D**
 On a Carboniferous fish fauna from the Mansfield District, Victoria.
 Mem. Nat. Mus. Melbourne, No. 1, 1-32, pls. i-xi, 3 text-figs.
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- 1907 A**
 Notes on some Upper Cretaceous fish-remains from the provinces of Sergipe and Pernambuco, Brazil.
 Geol. Mag. (5), IV, 193-197, pl. vii.
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- 1907 B**
 On a new dinosaurian reptile (*Scleromochlus taylori* gen. et sp. nov.) from the Trias of Lossiemouth, Elgin.
 Quart. Jour. Geol. Soc., LXIII, 140-144, pl. ix, 1 text-fig.
 Abstract in Sci. Progress, II, 515.
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- 1907 C**
 On *Rhynchosaurus articeps* (Owen).
 Rep. Brit. Assoc. Adv. Sci., 1903 (1904), York meet., 293-298, pls. i, ii, 1 fig.
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- 1908 A**
 On some fossil fishes discovered by Prof. Ennes de Souza in the Cretaceous formation at Ilhéos (State of Bahia), Brazil.
 Quart. Jour. Geol. Soc., LXIV, 358-362, pls. xlii, xliii.
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- 1909 A**
 The British Association for the Advancement of Science. Address of the President to the Geological Section.
 Science (n.s.), XXX, 321-331.
 See also Rep. Brit. Assoc. Adv. Sci., 1909 (1910), LXXIX, 467-471.
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- 1910 A**
 On a skull of *Megalosaurus* from the Great Oolite of Minchinhampton (Gloucestershire).
 Quart. Jour. Geol. Soc., LXVI, 111-115, pl. xiii.
 Abstract in Geol. Centralbl., XV, 413.
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- Woodward, A. Smith—Cont'd 1910 B**
 Presidential address at meeting of British Association for Advancement of Science, at Winnipeg, Canada.
 Rep. Brit. Assoc. Adv. Sci., LXXIX, Winnipeg, 1909, 462-471.
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- 1910 C**
 Some extinct vertebrate animals from North America.
 Nature, LXXXIV, 12-13, 2 figs.
 A review of collected papers from the Bull. Amer. Nat. Hist. from 1904-1908 (vol. III).
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- 1910 D**
 Origin of vertebrates.
 Proc. Linn. Soc. Lond., CXXII, 31.
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- 1911 A**
 On some mammalian teeth from the Wealden of Hastings.
 Quart. Jour. Geol. Soc., LXVII, 278-281, 1 text-fig.
 Abstract in Nature, LXXXVI, 233.
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- 1911 B**
 On the upper Devonian ostracoderm *Psammosteus taylori*.
 Ann. Mag. Nat. Hist. (8), VIII, 649-652, pl. ix.
 Abstracts in Geol. Centralbl., XVIII, 474; Neues Jahrb. Min. Geol. Pal., 1913, I, 164.
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- 1911 C**
 Fauna of the Carboniferous period.
 Proc. Linn. Soc. Lond., sess., CXXIII, 45-46.
 Also in Nature, LXXXVI, 541.
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- 1912 A**
 The fishes of the English chalk.
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On the pages noted the sharks, bony fishes, birds, and mammals are described. Abundant references to the literature are found in foot-notes.

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Ryder, J. 1887 A, 344 ("vertebrates").
Sabatier, A. 1902 A, 99 ("vertébrés").
Schauinsland, H. 1906 A, 339 ("vertebraten").
Sehenk, F. 1896 A, 213 ("wirbeltiere").
Schlosser, M. 1898 D, 119 ("wirbeltiere").
Seeley, H. G. 1866 B, 345 ("vertebrates").
1872 A, 265.
1872 B, 21.
Sewertzoff, A. 1896 A, 189.
1897 A, 409 ("wirbeltiere").
1904 A, 472.
1926 C, 42 ("wirbeltiere").
Starling, E. H. 1910 A, 20 ("vertebrates").
Steinmann, G. 1907 A, 389-542.
Stephan, P. 1900 A, 283.
Stieda, L. 1897 A ("wirbelthiere").
Stromer, E. 1905 H, 214 ("wirbeltiere").
1912 A.
1920 A, 9 ("wirbeltiere").
Terra, P. 1911 A.
Traquair, R. H. 1900 C, 502.
Veit, O. 1916 A, 368 ("wirbeltiere").
1924 A, 374 ("wirbeltiere").
Vialleton, L. 1917 A, 190 ("vertébrés").
Wallace, A. R. 1876 A, i, 503.
Wagner, R. 1843 A, 9.
Weidenreich, F. 1926 A, 45 ("wirbeltiere").
Wiedersheim, R. 1886 A.
Wilder, B. 1865 A, 56 ("vertebrates").

- Wilder, B. 1872 B ("vertebrates").
 Williston, S. W. 1909 A, 389 ("vertebrates").
 Woodward, A. S. 1910 D, 31 ("vertebrates").
 Woodward, H. 1904 B ("vertebrates").
 Wyman, J. 1867 B, 248 ("vertebrates").
 Ziegler, H. E. 1908 B, 653 ("wirbeltiere").
- Ziegler, H. E. 1923 A, 62, figs. 1-7 ("wirbeltiere").
 Zittel, K. A. 1901 A, 409.
 Zittel and Koken 1911 A.
 Zittel and Schlosser 1923 A, 1-705, figs. 1-800.
 Zittel and Woodward 1902 A.
 Zondek, M. 1895 A, 499 ("wirbeltiere").

Class PLAGIOSTOMI Meckel.

- Meckel, J. F. 1809 A, tab. iv.
 Unless otherwise indicated, the authors, as quoted, use for this class the name Elasmobranchii. Meckel, as cited, includes under Plagiostomi the genera *Raja*, *Squalus* and *Chimæra*. His name therefore antedates Elasmobranchii of Bonaparte.
- Hay, O. P. 1902 A, 262.
 Abel, O. 1912 F, 440.
 1919 A, 104.
 1920 A, 325.
 1921 A, 144, 248 ("haifische").
 Adloff, P. 1904 B, 54 ("selachier").
 1907 A, 532 ("fische").
 1915 A, 436 ("selachier").
 Agar, W. E. 1907 A, 625 ("elasmobranchs").
 Agassiz, L. 1832 A, 141 (Chondropterygii).
 1835 I, 99 ("placoidians").
 1840 A, 58 ("poissons").
 1840 B, 62 ("poissons").
 1844 C, 251 ("poissons").
 1844 D, 132 ("fishes"); 139 ("placoides").
 1844 E, 332 ("placoids").
 1856 B, 38 ("plagiostomes").
 1858 A, 8 ("selachians").
 1859 A, 108 ("fishes").
 1874 A, 129 ("selachians").
 Allis, E. P. 1903 A, 662.
 1905 A, 470.
 1915 A.
 1917 A, 140.
 1922 C, 1.
 1923 B, 156.
 1925 A, 75.
 1926 B, 334.
 Anderson, R. J. 1914 A, 533 ("selachians").
 Anthony, R. 1912 A ("poissons").
 Arltdt, T. 1923 A, 483 ("elasmobranchier").
 Ayers, H. 1906 A, 77 (Selachia).
 Backman, G. 1915 A, 14.
 Baraldi, G. 1877 A, 7, 44 ("sélaciens").
 Bardeleben, K. 1896 A, 114 ("selachier").
 1901 A, 28 ("selachier").
 1903 A, 20 ("selachier").
 1906 A, 139 ("selachier").
 1907 B, 154 ("fische").
 Barkas, W. J. 1874 D, 542 ("fishes").
 Barrell, J. 1915 B, 392 ("fishes").
 Baur, G. 1885 L ("vertebrates").
 1893 D, 117 ("selachier").
 Beer, R. G. 1922 A, 457 ("elasmobranchs").
 Belling, D. E. 1912 A, 53 (Selachii).
 Bessels, E. 1869 A, 152 ("selachier").
 Bluntshli, H. 1912 B, 379 ("selachier").
 Boas, J. E. V. 1914 B, 538 ("selachier").
 Bolk, L. 1922 B, 68.
 Bonaparte, C. L. 1831 A, 98 (Chismopnei. Includes Acipenseridæ, Chimeridæ, Squalidæ, and Rajidæ).
 1838 C, 214.
 1840 A, 44.
 Born, G. 1827 A, 182 ("fische").
 Brandt, J. F. 1865 A, 2 ("selachier"); 21 (Pisces, in part).
 Braus, H. 1901 A, 177 ("selachier").
 1901 B, 174, 194 ("selachier").
 1906 A ("selachier").
 1906 B, 552 ("chondropterygier").
 Bridge, T. W. 1878 A.
 1896 A, 533.
 1904 A, 431, 739.
 Bryant, W. L. 1926 B, 257.
 Brohmer, P. 1908 A, 25 (On Spinax).
 1909 A, 646 ("selachier").
 Bronn, H. G. 1849 A, 636, 781, seq.
 Burekhardt, R. 1903 A, 78 ("fische").
 1906 A, 156 ("fische").
 Cahall, W. C. 1890 A, 232 ("fishes").
 Carter, J. T. 1905 A, 129.
 Carus, V. 1875 A, 597 (Selachii).
 Carus and Engelmann 1861 A, 968-997, 1669-1676, 1788 (Pisces).
 Claypole, E. W. 1900 A, 247 ("elasmobranchs").
 Cleland, J. 1863 B, 308 ("fishes").
 1870 A, 120 ("fishes").
 Collinge, W. E. 1894 A, 526.
 1895 C, 888.
 Cope, E. D. 1885 BB, 64.
 1891 N, 10.
 Coulon, L. 1903 A, 99 ("poissons").
 Cunningham, J. T. 1897 A, 492 ("elasmobranchs").
 1912 A, 231-440 ("fishes").
 Cuvier, G. 1801 A, 25 ("poissons").
 1803 A, 166 ("poissons").
 1805 A ("chondroptérygiens").
 1814 A, 73 ("poissons").
 1815 A, 121 ("chondroptérygiens").
 Dana, J. D. 1863 A, 3 ("fishes").
 1863 C, 343 ("fishes").
 Daniel, J. F. 1922 A.
 Davidoff, M. 1879 A, 450 ("fische").
 Dean, B. 1895 B, 424 ("sharks").
 1900 A, 23, 27.
 1903 A, 285 ("elasmobranchs").
 1904 C, 437 ("fishes").
 1906 B, 155.
 1916 A ("fishes").
 Dean and Eastman 1916 A.
 1917 A.
 Deinse, A. B. 1916 A, 417 ("selachier").
 Delsman, H. C. 1913 A, 659 ("selachier").
 1924 A, 155 ("selachians").

- Deninger, K. 1914 A, 183-214 ("fische").
 1915 A, 181-183 ("fische").
 Dependorf, T. 1907 A, 546 ("fische").
 Derjugin, K. 1910 B, 207 ("selachier").
 Diener, C. 1909 A, 32 ("fische").
 Dietz, P. A. 1917 A, 79.
 Dohrn, A. 1884 A ("selachier").
 1890 A ("selachier").
 Dollo, L. 1889 E, 146 ("poissons").
 1889 F, 333 ("élasmobranches").
 1893 D, 5 ("poissons").
 1896 A, 110 ("élasmobranches").
 1903 D, 701 ("élasmobranches").
 1904 C, 47 ("chondroptérygiens").
 1906 B, 137 ("chondroptérygiens").
 Dombrowsky, B. A. 1918 A, 204.
 Drüner, L. 1902 A, 438 ("selachier").
 1906 A, 6 ("selachier").
 Dugès, A. 1905 A, 107 ("poissons").
 Eastman, C. R. 1898 E, 177 ("fishes").
 1901 C 329 ("elasmobranchs").
 1905 A, 46 ("elasmobranchs").
 1907 B, 23.
 1908 A, 59, 69, 95 ("elasmobranchs").
 1911 A, 20.
 1913 B, 677 ("fishes").
 1916 A, 655 (Pisces).
 1917 A, 254.
 Eastman and Barbour 1902 A, 267 ("elasmobranchs").
 Ebner, V. 1896 A, 123 ("fische").
 Eichwald, E. 1832 A, 876 ("selachier").
 Eisler, P. 1895 A, 17 ("fische").
 Elliot, A. I. M. 1907 A, 648 ("selachians").
 Emery, C. 1895 A, 223 ("sélaeiens").
 Erdl, M. 1843 A ("fische").
 Fahrenholz, C. 1915 A, 389 ("selachier").
 Filatoff, D. 1907 A, 338.
 Fitzinger, L. J. 1873 A, 53.
 Forster, A. 1905 A, 89-138.
 Fowler, H. W. 1911 A, 22.
 Fraas, E. 1905 B, 354 ("fische").
 Froriep, A. 1902 A, 34 ("selachier").
 1905 A, 156 ("sélaeiens").
 1905 B, 111 ("sélaehier").
 Fuchs, H. 1907 C, 24 ("fische").
 1909 B, 164 ("selachier").
 1909 D, 185 ("selachier").
 Fürbringer, K. 1903 A, 360 ("selachier").
 Fürbringer, M. 1902 A.
 1904 A ("selachier").
 Gadow, H. 1910 A, 27 ("elasmobranchs").
 Garman, S. 1911 A, 81 (Chondropterygii).
 1913 A, 2, 9 (Chondropterygii).
 Gaskell, W. H. 1905 A, 41 ("fishes").
 1908 A, 23, 343, 423 ("elasmobranchs").
 Gaupp, E. 1897 A, 545 ("elasmobranchier").
 1898 B ("sélaehier").
 1901 B, 931 ("selachier").
 1905 D, 867 ("selachier").
 1906 B ("selachier").
 1910 C, 338 ("selachier").
 1911 E, 338 ("selachier").
 1913 A, 23 ("selachier").
 Geddes, A. C. 1912 A, 353 ("elasmobranchs").
 Gegenbaur, C. 1867 A, 56 ("selachier").
 1870 C, 398 ("fische").
 Gegenbaur, C. 1871 B ("selachier").
 Geoffroy St. Hilaire, E. F. 1807 C, 87 ("poissons").
 Giebel, C. G. 1855 A, 114 (Selachii).
 Gill, T. 1873 E, 435 ("elasmobranchiates").
 1885 A, lxiii ("selachians").
 1898 A, 686 ("selachians").
 1905 A, 655, 657.
 1909 A, 193 ("elasmobranchiates," Chondrophora).
 Goetsch, W. 1920 A, 5, 518 ("plagiostomen," "selachier").
 Goette, A. 1901 A, 533 ("fische").
 Goodrich, E. S. 1904 A, 468, 492.
 1906 A ("elasmobranchs").
 1908 A, 752 ("elasmobranchs").
 1909 A, 118 (Chondrichthyes); 125 (Elasmobranchii).
 1924 A, 935 (Chondrichthyes).
 Greene, J. R. 1861 A, 227.
 Gregory, W. K. 1907 D, 445.
 1911 A, 509 ("fishes").
 1911 B, 892 ("sharks").
 1915 D, 320, 343.
 1922 A, 546 ("sharks").
 Haeckel, E. 1868 A, 441, 443 (Selachii).
 1873 A, 516, 585 (Selachii).
 1893 A, xvi ("selachier").
 Harrison, R. G. 1893 A, 248 ("sélaehier").
 1895 A, 566 ("selachier").
 Hase, A. 1907 A, 655 ("selachier").
 1913 A ("fische").
 Hasse, C. 1873 B, 629 ("plagiostomen").
 1892 B, 519 ("elasmobranchier").
 1893 B, 537 ("elasmobranchier").
 Hasse and Schwarck 1870 A, 47 ("plagiostomen").
 Hatschek, B. 1889 A, 82 ("fische").
 1889 B, 114 ("fische").
 Hawkes, O. A. M. 1905 A, 82 ("elasmobranchs").
 Hay, O. P. 1897 A, 131 ("sharks").
 1901 B, 63.
 1917 H, 383 ("fishes").
 Heekel, J. 1851 A, 219 ("selachier").
 Heilmann, A. 1887 A, 299.
 Henshaw, H. W. 1912 A, 318 ("fishes").
 Hertwig, O. 1892 A.
 Hoernes, R. 1886 A, 539 (Chondropterygii).
 Hoeven, J. 1822 A (Pisces, in part).
 Houssay, F. 1909 A, 617 ("poissons").
 1909 B, 943 ("poissons").
 1909 C, 1076 ("poissons").
 Howes, G. B. 1902 A, 525 ("elasmobranchs").
 Hubbs, C. L. 1926 A, 61 ("elasmobranchs").
 Huber, O. 1901 A, 592 ("sélaehier").
 Hubrecht, A. A. W. 1908 A, 152; 156 (Chondrophora).
 Huene, F. 1907 A, 151-152 ("fische").
 1910 F, 147-163 ("fische").
 1911 G, 146-151 ("fische").
 1926 A, 260.
 Hussakof, L. 1910 A, 925 ("selachians").
 Huxley, T. H. 1853 A, 150 ("skate").
 1859 D, 417.
 1859 H, 23.
 1861 D, 448.

- Huxley, T. H. 1869 G, 452.
1876 E, 103.
1883 B, 571.
- Ihering, H. 1878 A, 72 ("fische").
- Imms, A. D. 1905 A, 41 ("elasmobranchs").
- Jacobshagen, E. 1923 A, 174 ("selachier").
- Jaekel, O. 1902 E, 1115 ("plagiostomen").
1903 F, 28 (Pisces, in part); 36, 46 ("selachier").
1906 A, 8 ("selachier").
1906 C, 155 ("selachier").
1909 D, 701 ("fische").
1913 A, 77 ("fische").
1913 B, 194 ("selachier").
1927 A, 253 ("selachier").
- Jaquet, M. 1900 A, 60 ("sélaciens").
- Johnson, A. 1883 A, 402 ("elasmobranchs").
- Jordan, D. S. 1898 A, 173 ("fishes").
1901 A ("fishes").
1902 A, 240 ("fishes").
1905 A, i, 506; ii, 568.
1907 B, 180, 758.
1923 A, 90.
- Jordan and Gilbert 1882 A, 12.
- Kellicott, W. E. 1905 A, 137.
- Kerr, J. G. 1901 A, 694 ("selachians").
1910 A, 203 ("elasmobranchs").
- Keyes, C. A. 1922 A, pl. iii.
1924 A, 233 ("fishes").
- Kiaer, J. 1924 A, 91, 100, 101, 111.
- Kindred, J. E. 1919 A, 27 ("elasmobranchs").
- Kingsley, J. S. 1885 A, 68.
1896 A, 147 ("elasmobranchs").
1900 A, 204 ("elasmobranchs").
1901 A, 197 ("sharks").
1912 B ("elasmobranchs").
1925 A, 10, 29, 81, 232 ("elasmobranchs").
- Klaatsch, H. 1893 B ("fische").
1893 C, 143 ("fische").
- Kner, R. 1860 B, 815 (Plagiostomi).
- Koken, E. 1893 B, 640 ("fische").
- Kolmer, W. 1923 A, 529 ("selachier").
- Krivetski, A. 1917 A, 16 ("sélaciens").
- Lavocat, A. 1884 A, 1126 ("poissons").
1896 B, 194 ("poissons").
1897 A, 138 ("poissons").
- Le Damany, P. 1902 A, 333 ("poissons").
- Leigh-Sharpe, W. H. 1926 A, 307 ("elasmobranchs").
- Leunis and Ludwig 1883 A, 779 (Chondropterygii).
- Locy, W. A. 1894 A, 171 ("elasmobranchs").
- Lönnberg, E. 1901 A.
1902 A.
- Lubosch, W. 1909 A, 1 ("selachier").
- Lütken, C. 1868 C (Selachii).
1871 A, 296 ("chondrostéens desmbranches").
- Lydekker, R. 1907 C, 464.
- M'Donnell, R. 1864 A, 161 ("fishes").
- Mantell, G. A. 1844 A, 587, 612 ("sharks, rays").
- Meckel, J. F. 1825 A ("plagiostomen").
- Meek, A. 1916 A, 34.
- Menmuir, W. H. 1902 A, 273.
- Miall, L. C. 1872 A, 32.
- Mivart, St. G. 1871 B, 378 ("elasmobranchs").
- Montgomery, T. H. 1901 A, 21733 ("fishes").
- Moodie, R. L. 1915 I, 138 ("selachians").
- Mummery, J. H. 1917 A, 264 ("elasmobranchi").
- Nauck, E. T. 1926 B, 29 ("chondropterygier").
- Ortmann, A. E. 1901 A, 694 ("fishes").
- Osborn, H. F. 1916 E, 601 ("sharks, rays").
1917 B, 168, 292.
- Osburn, R. C. 1907 B, 174 (Selachii).
- Oswald, F. 1911 A, 409 ("elasmobranchs").
- Owen, R. 1845 B, 23 ("plagiostomes").
- Paramore, R. H. 1910 A, 1393 ("fishes").
- Parker, W. K. 1888 C, 399 ("elasmobranchs").
- Parker and Haswell 1897 A, 134.
- Paterson, A. M. 1902 A, 777 ("elasmobranchs").
- Patten, W. 1912 A, 384.
- Philippi and Frech 1903 A, 10 ("selachier").
- Poche, F. 1911 A, 49 ("selachier").
- Pompeckj, J. F. 1913 A, 1120.
1914 A, xcii ("fische").
- Priem, F. 1908 B ("elasmobranchs").
- Rabinerson, A. 1925 A, 434 ("knorpelfische").
- Rabl, C. 1901 A, 475 ("selachier").
- Radcliffe, L. 1916 A, 243 (Chondropterygia).
1917 A, 26 ("sharks").
- Rauther, M. 1913 A, 1097.
- Regan, C. T. 1904 A, 329 (Chondropterygii).
1906 A, 722 (Selachii).
1908 D, 347 ("selachians").
1909 B, 75 (Selachii).
1923 B, 459 ("selachians").
- Reis, O. M. 1894 A, 50 ("elasmobranchier").
1894 B, 87 ("fische").
- Reynolds, S. H. 1897 A, 62, 104, 117, 124, 127, 539.
- Ridewood, W. G. 1895 B ("elasmobranchs").
1896 A, 380 ("fishes").
1897 B, 499 ("elasmobranchs").
- Rohon, J. V. 1902 A, 25 ("selachier").
- Romer, A. S. 1928 A, 432 ("fish").
- Rosén, N. 1916 A, 7 ("selachier").
- Roth, W. 1911 A ("selachier").
- Ryder, J. 1885 E, 91 ("elasmobranchs").
1886 A, 71 ("elasmobranchs").
1887 A, 345.
- Sabatier, A. 1903 B, 1216 ("chondroptérygiens").
1904 A, 251 ("chondroptérygiens").
- Salbey, R. 1868 A, 734 ("placoiden").
- Schauinsland, H. 1906 A ("elasmobranchier").
- Schlosser, M. 1917 A, 132, 133, 137, 139 ("elasmobranchier").
- Schmalhausen, J. J. 1912 A, 510, 550 ("selachier").
1913 C.
1916 C, 211.
1923 A, 537 ("selachier").
- Schöne, G. 1902 A, 1 ("selachier").
- Schuchert, C. 1915 A, 682.
- Schuchert and Barrell 1914 A, 25 ("fishes").
- Sedgwick, A. 1894 A, 43.
- Seeley, H. G. 1872 B, 26 ("fish").
- Sewertzoff, A. N. 1896 A, 206 ("selachier").
1918 A, 206.
1923 A, 389 ("elasmobranchier").
1923 B ("elasmobranchs").
1926 A, 531.
1926 D, 76 ("elasmobranchier").

- Sewertzoff and Disler 1924 A, 345 ("clasmob-branchier").
 Shann, E. W. 1919 A, 532.
 Simpson, G. G. 1926 J, 173 ("elasmobranchs").
 Sollas and Sollas 1903 A, 288 ("clasmobranchs").
 Sonies, F. 1907 A, 404 ("selachier").
 Spencer, W. B. 1886 A, 231 ("elasmobranchs").
 Springer, F. 1924 A, 234 ("selachian fishes").
 Stannius, H. 1854 A.
 Steinmann, G. 1907 A, 399.
 1908 A, 303 ("fische").
 Stensiö, E. A. 1925 A, 64.
 1925 B, 160, 179.
 Strecker, C. 1887 A, 301 ("fische").
 Stromer, E. 1905 C, 181 ("elasmobranchier").
 1905 F, 477.
 1912 A, 17, 47.
 1920 A, 12.
 1925 A, 16 ("elasmobranchier").
 Suselkin, P. 1910 A, 247 ("elasmobranchier").
 Swinnerton, H. H. 1911 A, 447 ("fishes").
 Terra, P. 1911 A, 135, 198.
 Tomes, C. S. 1875 C, 362.
 1876 A, 257.
 1898 B, 443 ("plagiostomes").
 1900 A, 35 ("plagiostomes").
 Traquair, R. H. 1899 C, 602 ("clasmobranchs").
 1900 C, 505.
 Van Wijhe, J. W. 1905 B, 319 ("selachier").
 Veit, O. 1924 A, 383 ("elasmobranchier").
 Versluys, J. 1922 B, 95 (Selachii).
 Virchow, H. 1895 A, 105 ("selachier").
 Watson, D. M. S. 1925 A, 815, 822, 825 ("elasmobranchs").
 Weber, E. H. 1821 A, 1060 (Chondropterygii).
 Weidenreich, F. 1922 A, 45 ("elasmobranchier").
 Whitehouse, R. H. 1910 C, 135 ("elasmobranchs").
 1914 A, 522 ("fishes").
 1918 A, 136 ("elasmobranchs").
 Wiedersheim, R. 1892 A, 43 ("fische").
 Wilbrand, J. B. 1824 A, 982 ("fische").
 Wilder, B. G. 1865 A, 56.
 Wintrebert, P. 1910 B, 78 ("sélaciens").
 Woodward, A. S. 1898 E, 329 ("fishes").
 1910 B, 464 ("fishes").
 1915 B, lxiv.
 1917 D, lxx ("fishes").
 1921 B, 29 ("sharks, rays, chimæras").
 1922 C, 62.
 1924 B, 338.
 Woodward, H. 1878 A, 22 (Plagiostomi).
 1904 B, 140.
 Wright, E. P. 1878 A, 286 ("fishes").
 1878 B, 149 ("fishes").
 Wright, W. 1909 A, 670.
 Wyman, J. 1867 B, 264 ("fishes").
 Ziegler, H. E. 1901 A, 231 ("selachier").
 1908 B, 655 ("selachier").
 Zittel, K. A. 1901 A, 409 ("fishes").
 Zittel and Koken 1911 A, 39.
 Zittel and Schlosser 1923 A, 45.
 Zittel and Woodward 1902 A, 17 (Selachii).

Subclass TREMATOPNEI Bonaparte.

- Bonaparte, C. L. 1831 A, 99, 121.
 Unless otherwise indicated, the authors, as quoted, apply to this subclass the name Plagiostomi. It is often difficult to determine in just what sense writers employ their terms, systematic and vernacular. Bonaparte here included Cyclostomi, but later removed them.
 Hay, O. P. 1902 A, 263 (Plagiostomata).
 Agassiz, A. 1877 A, 123 ("plagiostomes").
 Allis, E. P. 1905 A, 495.
 1914 A, 353 ("selachians").
 1918 B, 263.
 Anthony, R. 1912 A ("sélaciens").
 Arldt, T. 1907 D, 674.
 Bender, O. 1907 A, 38 ("selachier").
 1910 A, 122 ("selachier").
 Bolk, L. 1914 A, 118 ("plagiostomen").
 Bonaparte, C. L. 1833 B, 1203.
 1840 A, 44.
 Braus, H. 1899 A, 501 ("selachier").
 Bridge, T. W. 1904 A, 148, 751.
 Brohmer, H. G. 1849 A, 830, seq.
 Bronn, H. G. 1849 A, 830, seq.
 Cartier, O. 1875 A, 65 ("plagiostomen").
 Cope, E. D. 1871 T, 449 (Selachii).
 Cunningham, J. T. 1912 A, 246.
 Davidoff, M. 1879 A ("plagiostomen").
 Day, E. C. H. 1865 A, 565.
 Dames, W. 1898 C, 331 ("sharks").
 Dean, B. 1903 A, 285 (Selacha).
 Derjugin, K. 1910 A, 587 (Selachii).
 Dohrn, A. 1884 A, 139 ("plagiostomen").
 Dollo, L. 1904 C, 47 ("elasmobranchs").
 Dormitzer, M. 1852 A, 61 ("plagiostomen").
 Duméril, A. 1856 A, 120 ("plagiostomen").
 Fahrenheit, C. 1915 A, 390 ("plagiostomen").
 Fitzinger, L. J. 1873 A, 54 (Plagiostomata).
 Huxley, T. H. 1876 E, 121.
 1883 B, 571.
 Fuchs, H. 1907 C, 27 ("plagiostomen").
 Fürbringer, K. 1904 B, 458, 479 ("selachier").
 Garman, S. 1904 A, 246 ("plagiostomes").
 1913 A, 9, 10 (Plagiostomia).
 Gaupp, E. 1906 A, 27 ("selachier").
 1910 C.
 1911 A, 419 ("selachier").
 Gegenbaur, C. 1866 A, 123 ("selachier").
 1867 B, 380 ("selachier").
 1870 C, 399 ("selachier").
 1879 A, 522 ("selachier").
 Gill, T. 1905 A, 657.
 Goette, A. 1878 A, 12 ("plagiostomen").
 Goodrich, E. S. 1910 A, 24 ("selachians").
 Goodsir, J. 1857 B ("plagiostomes").
 Greene, J. R. 1861 A, 227.
 Haeckel, E. 1875 A, 516.
 1893 A, xviii.
 Hamburger, R. 1904 A, 73 ("selachier").
 Hilzheimer, M. 1913 A, 471.
 Hoernes, R. 1886 A, 540.
 Huxley, T. H. 1859 D, 418 ("plagiostomes").
 1876 E, 121.
 1883 B, 571.
 Jaekel, O. 1903 D, 59 ("selachier").

- Jaekel, O. 1912 A, 621 ("selachier").
 Jordan, D. S. 1905 A, i, 508; ii, 591 (Selachii).
 1907 B, 182, 758 (Selachii).
 1923 A, 90 (Selachii).
 Killian, G. 1891 A, 85 ("selachier").
 Kingsley, J. S. 1885 A, 72.
 Klaatsch, H. 1890 A, 119 ("plagiostomen").
 Lönnberg, E. 1901 A.
 1902 A.
 Lubosch, W. E. 1908 A, 200 ("selachier").
 Meck, A. 1907 A, 411 (Selachii).
 Miall, L. C. 1872 A, 41.
 Müller, J. 1845 A, 137.
 Nunn, E. 1882 A, 160 ("plagiostomes").
 Nusbaum, J. 1907 A, 309 ("selachier").
 Owen, R. 1868 A, 901.
 Parker, T. J. 1886 A, 635.
 Parker, W. K. 1879 C, 331 ("selachians").
 Pompeckj, J. F. 1913 A, 1123.
 Rabl, C. 1892 A, 10 ("selachier").
- Radcliffe, L. 1911 A, 243 (Plagiostomia).
 Rafinesque, C. S. 1815 A, 93 (Plagiostomia).
 Rauther, M. 1913 A, 1055, 1093.
 Regan, C. T. 1906 A, 722, 726 (Trematopnea).
 1912 A, 836 (Trematopnea).
 Reis, O. M. 1893 A, 501.
 1894 A, 62 ("plagiostomen").
 Roth, W. 1911 A, 518 ("plagiostomen").
 Sabatier, A. 1904 A, 249 ("sélaciens").
 Schmalhausen, J. J. 1913 A, 60 (Plagiostomata).
 Shann, E. W. 1919 A, 532.
 Solger, B. 1880 B, 458, pl. xxxix ("selachier").
 Spengel, J. W. 1905 A, 332 ("elasmobranchier").
 Steinhard, O. 1903 A, 1 ("plagiostomen").
 Stromer, E. 1912 A, 18, 47.
 Versluys, J. 1922 B, 95 (Selachii).
 Wallace, A. R. 1876 A, ii, 460 (Plagiostomata).
 Wiedersheim, R. 1892 A, 45 ("selachier").
 Ziegler, H. E. 1908 A, 721 (selachier").

Superorder TAPINOSELACHII nom. nov.

To include Pleuropterygia, Ichthyotomi and
 Acanthodei.

Order PLEUROPTERYGIA Dean.

- Unless otherwise indicated, the authors, as
 quoted, use the form Pleuropterygii.
- Hay, O. P. 1902 A, 272 (Pleuropterygia).
 Abel, O. 1919 A, 110 (Pleuropterygia).
 1920 A, 328 ("pleuropterygier").
 Arldt, T. 1923 A, 483 ("pleuropterygier").
 Backman, G. 1915 A, 24.
 Bridge, T. W. 1904 A, 436.
 Dean, B. 1900 A, 22.
 1902 C, 702.
 1906 B, 155 ("pleuropterygians").
 1907 B, 220.
 1909 C, 241.
 Eastman, C. R. 1900 G, 287.
 1907 B, 23, 54 (Pleuropterygia).
 1908 A, 69, 97.
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1908 A, 753.
 Gregory, W. K. 1907 D, 445 (Pleuropterygia).
- Hussakof and Bryant 1919 A, 127.
 Jordan, D. S. 1905 A, i, 514; ii, 586.
 1907 B, 758.
 1923 A, 91.
 Kiaer, J. 1924 A, 100, 104 (Cladoselachii).
 Osburn, R. C. 1907 A, 420, 425 (Pleuroptery-
 gidæ).
 1907 B, 173 (Pleuropterygidæ).
 Parker and Haswell 1897 A, 154 (Cladoselachea).
 Pompeckj, J. F. 1913 A, 1122 (Cladoselachii).
 Regan, C. T. 1906 A, 722, 731.
 1912 A, 836 (Pleuropterygia).
 Reynolds, S. H. 1897 A, 31, 63.
 Sewertzoff, A. N. 1926 B, 577, 579.
 Stromer, E. 1920 A, 12, 15 (Cladoselachii).
 Woodward, A. S. 1921 B, 29.
 1922 C, 64.
 Zittel and Woodward 1902 A, 19.

CLADOSELACHIDÆ Dean.

- Hay, O. P. 1902 A, 272.
 Arldt, T. 1923 A, 483 ("cladoselachier").
 Backman, G. 1913 A, 54.
 Braus, H. 1906 A, 199 ("cladoselachiden").
 Bridge, T. W. 1904 A, 438.
 Dean, B. 1895 B, 424 ("cladoselachids").
 1902 A, 768, 770 ("cladoselachids").
 1907 B, 220 ("cladoselachians," Cladoscla-
 chia).
 1909 C, 212, 241 (Cladoselachia, Cladosela-
 chidæ).
 1912 A, 227.
- Eastman, C. R. 1907 B, 23.
 Goodrich, E. S. 1909 A, 187.
 Gregory, W. K. 1907 D, 445 (Cladoselachii,
 Cladoselachidæ).
 1915 D, 343 (Cladoselachii).
 Hay, O. P. 1901 B, 61, 69.
 Jordan, D. S. 1923 A, 91.
 Osburn, R. G. 1907 B, 173.
 Regan, C. T. 1906 A, 722.
 Stromer, E. 1912 A, 23 (Cladoselachii).
 Versluys, J. 1922 B, 102 (Cladoselachii).
 Woodward, A. S. 1920 B, 5.

CLADOSELACHE Dean. Type *Cladodus fylleri* (Newb.).

- Hay, O. P. 1902 A, 272.
 Abel, O. 1912 F, 518.
 1920 A, 329.
 Backman, G. 1913 A, 48.
- Bridge, T. W. 1904 A, 438, 736.
 Cunningham, J. T. 1897 A, 496.
 1912 A, 252.
 Dames, W. 1898 C, 331.

- Daniel, J. F. 1922 A, 2, fig. 1.
 Dean, B. 1902 A, 768.
 1902 C, 702.
 1909 C, 244, fig. 41.
 Derjugin, K. 1910 B, 209.
 Eastman, C. R. 1900 G, 287.
 1901 C, 329.
 1905 A, 48.
 1907 B, 54.
 1908 A, 99.
 1911 B, 184.
 Goodrich, E. S. 1901 A, 492.
 1908 A, 754.
 1909 A, 184.
 Hay, O. P. 1901 B, 66, 69.
 Hussakof, L. 1910 B, 306.
 Jaekel, O. 1909 D, 711, fig. 3.
 Jordan, D. S. 1910 C, 186.
 1923 A, 91.
 Karpinsky, A. P. 1915 A, 129.
 1925 A, 128.
 Kenma, A. 1904 A, 20.
 Kerr, J. G. 1900 A, 230.
 Kiaer, J. 1924 A, 101, fig. 46.
 Kingsley, J. S. 1925 A, 232, fig. 244.
 Knipe, H. R. 1912 A, 40, fig.
 Lull, R. S. 1918 B, 203.
 Moodie, R. L. 1926 A, 69.
 Osborn, H. F. 1916 E, 604, fig. 13.
 Osburn, R. C. 1907 A, 425.
 1907 B, 172.
 Oswald, F. 1911 A, 407, fig. 5.
 Pompeckj, J. F. 1913 A, 1122, 1124.
 Regan, C. T. 1906 A, 731 (*Cladoselachus*).
 Rennie, J. 1906 A, 431.
 Reynolds, S. H. 1897 A, 31, 63, 129.
 Senon, R. 1898 A, 105.
 Stromer, E. 1905 G, 478.
 Swinnerton, H. H. 1905 A, 373.
 1911 A, 453, fig. 12.
 Traquair, R. H. 1898 B, 44.
 1900 C, 505.
 Watson, D. M. S. 1925 A, 820, 824.
 Woodward, A. S. 1897 C, 379.
 1898 E, 329.
 1906 C, 273.
 1915 B, lxxv.
 1921 A, 179.
 1921 B, 29, fig. 1.
 1922 C, 64.
 Zittel and Schlosser 1923 A, 54.
 Zittel and Woodward 1902 A, 19.
- Cladoselache acanthopterygius** Dean.
Dean, B. 1909 C, 228, 237, 240, fig. 27.
Hussakof and Bryant 1919 A, 128, pl. xlv, text-fig. 43.
 Upper Devonian (Cleveland); Ohio.
- Cladoselache brachypterygius** Dean.
Dean, B. 1909 C, 226, 240, pl. xxxii, text-figs. 22, 23, 26.
Hussakof and Bryant 1919 A, 129, pl. xlvi.
 Upper Devonian (Cleveland); Ohio.
- Cladoselache clarki** (Claypole).
Hay, O. P. 1902 A, 272.
Claypole, E. W. 1903 A, 319, 351 (*Cladodus*).
- Dean, B.* 1909 C, 215, 220, 239, figs. 3, 13, 18a, 21.
Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland); Ohio.
- Cladoselache desmopterygius** Dean.
Dean, B. 1909 C, 227, 240, pl. xxix, text-fig. 24.
Hussakof and Bryant 1919 A, 130, pl. xlvii; text-figs. 44, 45.
 Upper Devonian (Cleveland?); Ohio?
- Cladoselache eastmani** Dean.
Dean, B. 1909 C, 228, 240, fig. 25.
Hussakof and Bryant 1919 A, 19, 133, text-fig. 46.
 Upper Devonian (Naples shale, Rhinestreet shale); New York.
- Cladoselache fyleri** (Newb.).
Hay, O. P. 1902 A, 272.
Abel, O. 1907 D, (162).
 1919 A, 113, figs. 72, 74 (*Cladodus*).
 1920 A, 329, fig. 520.
 1921 A, 248, fig. 90 (*Cladodus*).
Backman, G. 1913 A, 50.
Böker, H. 1927 A, 36 (*Cladodus*).
Braus, H. 1901 A, 184, figs. 4, 6 (*Cladodus*).
Bridge, T. W. 1901 A, 437, fig. 249.
Claypole, E. W. 1903 A, 319, 346, 351 (*Cladodus*).
Dean, B. 1902 D, 273, pl. viii, pl. ix, fig. 3.
 1909 C, 215, 239, pl. xxvi, text-figs. 1, 2, 5, 6, 9-11, 14-16, 19, 19a, 29-31, 34-36.
Eastman, C. R. 1907 B, 18, fig. 14.
 1908 A, 61, 283, fig. 6.
 1911 A, 16, fig. 3.
Frassetto, F. 1915 A, 5, figs. 1, 23, 24.
Goodrich, E. S. 1909 A, 185, figs. 152, 153.
Gregory, W. K. 1922 A, 5, fig. 2.
Hussakof, L. 1908 A, 26.
Hussakof and Bryant 1919 A, 134, pl. xlviii.
Hyde, J. E. 1926 A, 498.
Jaekel, O. 1909 D, 714, figs. 5, 6.
Jordan, D. S. 1905 A, i, 514, figs. 300-302.
Pompeckj, J. F. 1913 A, 1122.
Stensiö, E. A. 1925 A, 125.
Stromer, E. 1912 A, 22, fig. 30.
Woodward, A. S. 1890 F, 147 (*Cladodus*).
 1906 C, 272, fig. 5.
 1921 B, 31.
 1924 A, 108, fig. 2.
Zittel and Koken 1911 A, 44, figs. 60, 61.
 Upper Devonian (Cleveland); Ohio.
- Cladoselache kepleri** (Newb.).
Hay, O. P. 1902 A, 272.
Claypole, E. W. 1903 A, 319, 346, 350 (*Cladodus*).
Dean, B. 1902 D, 274.
 1909 C, 215, 239, pl. xxviii, figs. 4, 8, 18, 20.
Eastman, C. R. 1907 B, 18.
 1908 A, 283.
Hussakof, L. 1908 A, 27.
Hussakof and Bryant 1919 A, 135, pls. xlix, l; text-figs. 47, 48.
Hyde, J. E. 1926 A, 498.
 Upper Devonian (Cleveland); Ohio.

Cladoselache magnificus (Claypole).

- Hay, O. P. 1902 A, 269 (Cladodus).
 Dean, B. 1909 C, 213, 241.
 Savage, T. E. 1902 A, 262 (Cladodus).
 Mississippian; Alabama, Illinois, Indiana,
 Iowa?

Cladoselache newberryi Dean.

- Hay, O. P. 1902 A, 272.
 Dean, B. 1909 C, 234, 240, pl. xxx, figs. 33, 38.
 Hussakof, L. 1908 A, 27.
 Hussakof and Bryant 1919 A, 128, 138, text-
 fig. 49.
 Zittel and Woodward 1902 A, 19, fig. 34.
 Mississippian (Waverly); Ohio.

Cladoselache pachypterygius Dean.

- Dean, B. 1909 C, 222, 241, fig. 17.
 Mississippian (Waverly); Kentucky.

Cladoselache rivi-petrosi (Claypole).

- Hay, O. P. 1902 A, 269 (Cladodus).

Claypole, E. W. 1903 A, 319, 351 (Cladodus).

Dean, B. 1902 C, 702 ("Cladoselacha").

Eastman, C. R. 1907 B, 18 (Cladodus).

1908 A, 283 (Cladodus).

Upper Devonian (Cleveland); Ohio.

Cladoselache sinuatus (Claypole).

- Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 351 (Cladodus).
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland); Ohio.

Cladoselache sp. indet.

- Eastman, C. R. 1907 B, 17, 58, pl. viii. Upper
 Devonian (Chemung Portage); New York.
 1908 A, 281. Upper Devonian (Chemung
 Portage); New York.
 Hussakof, L. 1908 A, 27. Upper Devonian,
 (Cleveland); Ohio.
 Hyde, J. E. 1926 A, 502, fig. Devonian (Cleve-
 land); Ohio.

CLADODONTIDÆ Nicholson and Lydekker.

- Hay, O. P. 1902 A, 267.
 Abel, O. 1919 A, 115.
 Arldt, T. 1923 A, 483 ("cladodonten").
 Braus, H. 1901 A, 179 ("cladodonten").
 Cope, E. D. 1891 N, 15.
 Dean, B. 1909 C, 242.
 Dollo, L. 1889 F, 338.
 1903 D, 701 ("cladodontes").
 1906 B, 136 ("cladodontes").
 Eastman, C. R. 1907 B, 23, 61.
 1908 A, 107.
 1917 A, 254.
 Gill, T. 1885 A, lxiv.
 Goodrich, E. S. 1909 A, 183.
 Hay, O. P. 1901 B, 66, 69.
 Jordan, D. S. 1905 A, i, 520; ii, 563.
 1923 A, 92.
 Koken, E. 1893 B, 253.
 1904 A, 305 ("cladodontiden").
 Regan, C. T. 1906 A, 722.
 Rosén, N. 1916 A, 10.
 Schlosser, M. 1917 A, 133 ("cladodontiden").
 Stensiö, E. A. 1925 A, 125, 126 ("cladodontids,
 cladodontids").
 Zittel and Koken 1911 A, 44.
 Zittel and Schlosser 1923 A, 52.

CLADODUS Agassiz. Type *C. mirabilis* Agassiz.

- Hay, O. P. 1902 A, 267 (Cladodus); 272 (Styp-
 tobasis).
 Abel, O. 1919 A, 114, figs. 73, 75.
 1920 A, 329 (Syn. of Cladoselache).
 Agassiz, L. 1844 C, 267.
 Anonymous 1898 C, 74.
 Backman, G. 1913 A, 51.
 Barkas, W. J. 1874 B, 161, figs. 3-6.
 1874 D, 545.
 Böker, H. 1927 A, 36.
 Braus, H. 1901 A, 183, fig. 2.
 1901 A, 412.
 Bronn, H. G. 1849 A, 650.
 Clark, W. 1898 A, 46.
 Claypole, E. W. 1903 A, 344, 347.
 Cushing, H. P. 1912 A, 582.
 Dames, W. 1898 C, 331.
 Dean, B. 1902 A, 769.
 1909 C, 249.
 Dollo, L. 1889 F, 337.
 Eastman, C. R. 1907 B, 61, 193.
 1908 A, 107.
 1917 A, 254.
 Frassetto, F. 1915 A, 46.
 Giebel, C. G. 1855 A, 114.
 Goodrich, E. S. 1909 A, 50, 128, 184, figs. 68, 87.
 Hay, O. P. 1901 B, 66, 69 (Cladodus, Styp-
 tobasis).
 Hayden, F. V. 1872 A, 132.
 Howes, G. B. 1891 A, 84.
 Jaekel, O. 1892 B, 156.
 1909 D, 711, figs. 4, 7.
 1911 A, 60, fig. 60.
 1913 A, 91.
 1921 A, 228, fig. 8.
 Jordan, D. S. 1919 B, 213.
 1923 A, 92.
 Karpinsky, A. 1915 A, 129.
 Klaatsch, H. 1890 A, 122.
 Moodie, R. L. 1926 A, 66.
 Regan, C. T. 1906 A, 731.
 Reis, O. M. 1894 A, 50.
 Ridewood, W. G. 1896 A, 382, fig. 6.
 Rogers, A. F. 1924 A, 548.
 Savage, T. E. 1902 A, 257.
 Swinnerton, H. W. 1905 A, 373.
 Teller, E. E. 1906 A, 164.
 Thompson, J. 1872 A, 66.
 Traquair, R. H. 1898 B, 41, pl. iv.
 1900 C, 505.
 1905 A, 83.
 Twenhofel and Dunbar 1914 A, 160.

- Weller, S. 1902 A, 427.
 Woodward, A. S. 1924 A, 112.
 Zittel and Koken 1911 A, 45.
 Zittel and Schlosser 1923 A, 52, 54, fig. 70.
 Zittel and Woodward 1902 A, 19.
- Cladodus aculeatus (Cope).**
 Hay, O. P. 1902 A, 272 (Styptobasis).
 Pennsylvanian; Illinois.
- Cladodus acuminatus Newb.**
 Hay, O. P. 1902 A, 267.
 Pennsylvanian; Ohio.
- Cladodus alternatus St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Eastman, C. R. 1908 A, 111.
 Hennig, E. 1920 A, 17.
 Mississippian (Kinderhook, Burlington); Iowa.
- Cladodus^s angulatus Newb. and Worth.**
 Hay, O. P. 1902 A, 268.
 Mississippian (Keokuk); Illinois.
- Cladodus bellifer St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Brongniart, C. 1888 C, 45, 47.
 Mississippian (Burlington); Iowa.
- Cladodus carinatus St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Claypole, E. W. 1903 A, 319, 346.
 Pennsylvanian; Illinois, Iowa.
- Cladodus claypolei Hay.**
 Hay, O. P. 1902 A, 268.
 Eastman, C. R. 1907 B, 18.
 1908 A, 282.
 Upper Devonian (Cleveland); Ohio.
- Cladodus compressus Branson.**
 Branson, E. B. 1908 A, 312.
 Branson, E. B. 1906 A, 1378, pl. xlii, figs. 1-4
 (C. striatus, not of Agassiz).
 Eastman, C. R. 1917 A, 256.
 Hussakof, L. 1908 A, 24.
 Mississippian (Salem); Indiana.
- Cladodus concinnus Newb.**
 Hay, O. P. 1902 A, 268.
 Claypole, E. W. 1903 A, 319.
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 1915 A, 283.
 Hussakof, L. 1908 A, 25.
 Upper Devonian (Cleveland, Huron shale); Ohio.
- Cladodus coniger Hay.**
 Hay, O. P. 1902 A, 268.
 Eastman, C. R. 1907 B, 20, 63.
 1908 A, 109, 287.
 Hennig, E. 1920 A, 17.
 Hussakof and Bryant 1919 A, 139.
 Upper Devonian (Chemung); Pennsylvania.
- Cladodus costatus Newb. and Worth.**
 Hay, O. P. 1902 A, 268.
 Mississippian (Chester); Illinois.
- Cladodus deflexus Newb. and Worth.**
 Hay, O. P. 1902 A, 268.
 Mississippian (Burlington); Illinois.
- Cladodus eboreus nom. nov.**
 Eastman, C. R. 1917 A, 255, pl. x, fig. 4; pl. xviii, fig. 1 (C. aculeatus, preoccupied).
 Mississippian? (Caney); Oklahoma.
- Cladodus eccentricus St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Mississippian (St. Louis); Illinois, Missouri.
- Cladodus elegans Newb. and Worth.**
 Hay, O. P. 1902 A, 268.
 Mississippian (St. Louis); Missouri.
- Cladodus euglypheus St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Branson, E. B. 1906 A, 1378 (C. euglyphæus).
 1908 A, 312.
 Mississippian (St. Louis); Illinois, Missouri, Iowa.
- Cladodus exiguus St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Eastman, C. R. 1908 A, 111.
 Hennig, E. 1920 A, 17.
 Mississippian (Kinderhook); Iowa.
- Cladodus exilis St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Eastman, C. R. 1908 A, 111.
 Hennig, E. 1920 A, 17.
 Mississippian (Kinderhook); Iowa.
- Cladodus ferox Newb. and Worth.**
 Hay, O. P. 1902 A, 268.
 Branson, E. B. 1906 A, 1376, pl. xli, figs. 3, 4.
 Mississippian (St. Louis); Missouri; (Salem); Indiana.
- Cladodus formosus Hay.**
 Hay, O. P. 1902 D, 373, figure 1.
 Cross, W. 1905 C, 5.
 Eastman, C. R. 1908 A, 110, 286.
 1915 A, 283.
 Hennig, E. 1920 A, 17.
 Merrill, G. P. 1907 A, 7.
 Upper Devonian (Ouray); Colorado.
- Cladodus fulleri St. John and Worth.**
 Hay, O. P. 1902 A, 268.
 Pennsylvanian; Illinois, Iowa.
- Cladodus girtyi Hay.**
 Hay, O. P. 1902 A, 268.
 Cockerell, T. D. A. 1908 C, 161.
 Eastman, C. R. 1903 B, 169.
 Merrill, G. P. 1907 A, 7.
 Pennsylvanian; Colorado.

- Cladodus gomphoides** St. John and Worth.
Hay, O. P. 1902 A, 268.
Mississippian (Burlington); Iowa.
- Cladodus gracilis** Newb. and Worth.
Hay, O. P. 1902 A, 268.
Eastman, C. R. 1917 A, 255.
Pennsylvanian; Indiana.
- Cladodus grandis** Newb. and Worth.
Hay, O. P. 1902 A, 268.
Mississippian (Chester); Illinois.
- Cladodus hertzeri** Newb.
Hay, O. P. 1902 A, 268.
Hussakof, L. 1908 A, 25.
Mississippian (Waverly); Ohio.
- Cladodus horridus** Newb.
Newberry, J. S. 1874 G, 98 (No description).
Mississippian (Waverly); Kentucky or Ohio.
- Cladodus indianensis** Branson.
Branson, E. B. 1906 A, 1377, pl. xlii, figs. 5-8.
Mississippian (Salem); Indiana.
- Cladodus intercostatus** St. John and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Burlington, Keokuk); Iowa, Illinois.
- Cladodus irregularis** Strong.
Strong, E. A. 1872 A, 2.
Mississippian; Michigan.
- Cladodus ischypus** Newb. and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (St. Louis); Missouri.
- Cladodus keokuk** St. John and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Iowa, Illinois.
- Cladodus knightianus** (Cope).
Hay, O. P. 1902 A, 272 (Styptobasis).
Eastman, C. R. 1903 B, 168, pl. ii, fig. 4.
Knight, W. C. 1899 A, 365 (Styptobasis).
Permian (Chase); Nebraska.
- Cladodus lamnoides** Newb. and Worth.
Hay, O. P. 1902 A, 269.
Branson, E. B. 1906 A, 1378, pl. xlii, figs. 9, 10.
Mississippian (Keokuk); Illinois: (Salem); Indiana.
- Cladodus micropus** Newb. and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Illinois.
- Cladodus monroei** Eastman.
Hay, O. P. 1902 A, 269.
Cleland, H. F. 1911 A, 147, pl. xlvii, fig. 3.
Eastman, C. R. 1907 B, 15, 62, pl. i, fig. 5.
1908 A, 108, 276, pl. i, fig. 17.
Hennig, E. 1920 A, 17.
Teller, E. E. 1911 A, 270.
Middle Devonian (Hamilton); Wisconsin.
- Cladodus mortifer** Newb. and Worth.
Hay, O. P. 1902 A, 269.
Branson, E. B. 1916 A, 652 (Syn. of *C. occidentalis*).
Hayden, F. V. 1872 A, 127.
Hussakof, L. 1908 A, 25.
Mason, S. C. 1883 A, 13.
Meek, F. B. 1869 A, 3.
1872 A, 101, 127.
Pennsylvanian; Illinois, Kansas.
- Cladodus newmani** Tuomey.
Hay, O. P. 1902 A, 269.
Mississippian; Alabama.
- Cladodus occidentalis** Leidy.
Hay, O. P. 1902 A, 269.
Branson, E. B. 1916 A, 652, pl. ii, figs. 23, 24.
Eastman, C. R. 1903 B, 168, 169, pl. ii, figs. 3, 8, 9.
Pennsylvanian (Missourian); Kansas, Illinois, Indiana, Iowa, Nebraska, Wyoming.
- Cladodus pandatus** St. John and Worth.
Hay, O. P. 1902 A, 269.
Pennsylvanian; Illinois.
- Cladodus parvulus** Newb.
Hay, O. P. 1902 A, 269.
Claypole, E. W. 1903 A, 319, 321.
Hussakof, L. 1908 A, 25.
Devonian (Cleveland); Ohio.
- Cladodus pattersoni** Newb.
Hay, O. P. 1902 A, 269.
Claypole, E. W. 1903 A, 319, 321.
Miller, A. M. 1916 A, 72 ("Orodus").
Newberry, J. S. 1874 G, 94, 98.
Devonian (Waverly); Ohio, Kentucky.
- Cladodus politus** Newb. and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Chester); Illinois.
- Cladodus prænuntius** St. John and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Burlington); Iowa.
- Cladodus prototypus** Eastman.
Eastman, C. R. 1907 B, 13, 61, pl. i, fig. 15.
Eastman, C. R. 1908 A, 108, 276, pl. i, fig. 18.
Hennig, E. 1920 A, 17.
Hussakof, L. 1908 A, 25.
Stauffer, C. R. 1909 A, 169.
Middle Devonian (Columbus); Ohio.
- Cladodus raricostatus** St. John and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Iowa.
- Cladodus robustus** Newb. and Worth.
Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Illinois.

Cladodus romingeri Newb.

Hay, O. P. 1902 A, 269.

Hussakof, L. 1908 A, 25.

Mississippian (Waverly); Michigan.

Cladodus spinosus Newb. and Worth.

Hay, O. P. 1902 A, 269.

Branson, E. B. 1906 A, 1377, pl. xli, figs. 1, 2.

Eastman, C. R. 1917 A, 254, pl. viii, fig. 7.

Mississippian (St. Louis); Missouri; (Salem); Indiana.

Cladodus splendens Newb.

Hay, O. P. 1902 A, 269.

Weller, S. 1926 A, 495, fig.

Mississippian (Kinderhook); Iowa.

Cladodus springeri St. John and Worth.

Hay, O. P. 1902 A, 269.

Brongniart, C. 1888 C, 45, 47.

Eastman, C. R. 1908 A, 111.

Hennig, E. 1920 A, 17.

Mississippian (Kinderhook); Iowa.

Cladodus stenopus Newb. and Worth.

Hay, O. P. 1902 A, 270.

Branson, E. B. 1906 A, 1377.

Mississippian (St. Louis); Illinois.

Cladodus striatus Agassiz.

Hay, O. P. 1902 A, 270.

Branson, E. B. 1908 A, 311.

Eastman, C. R. 1899 A, 642.

Subcarboniferous; England, Ireland. Devonian (Corniferous); Ohio.

Cladodus subulatus Newb.

Hay, O. P. 1902 A, 270.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Upper Devonian (Cleveland); Ohio.

Cladodus succinctus St. John and Worth.

Hay, O. P. 1902 A, 270.

Eastman, C. R. 1908 A, 111.

Hennig, E. 1920 A, 17 (C. succinatus).

Mississippian (Kinderhook); Iowa.

Cladodus terrelli Newb.

Hay, O. P. 1902 A, 270.

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

PHŒBODUS St. John and Worth.

Hay, O. P. 1902 A, 270.

Eastman, C. R. 1901 A, 795.

1903 B, 195.

1907 B, 60.

1908 A, 105.

Hay, O. P. 1901 B, 66.

Hussakof and Bryant 1919 A, 148.

Jordan, D. S. 1923 A, 92.

Phœbodus dens-neptuni Eastman.

Eastman, C. R. 1903 B, 196; pl. iv, fig. 39.

Mississippian (Keokuk); Iowa.

Hussakof, L. 1908 A, 26.

Upper Devonian (Cleveland); Ohio.

Cladodus tumidus Newb.

Hay, O. P. 1902 A, 270.

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Hussakof, L. 1908 A, 26.

Upper Devonian (Cleveland); Ohio.

Cladodus turritus Newb. and Worth.

Hay, O. P. 1902 A, 270.

Mississippian (Keokuk); Illinois.

Cladodus urbs-ludovici Eastman.

Eastman, C. R. 1908 A, 110, 281, pl. iii, fig. 3.

Hennig, E. 1920 A, 17.

Hussakof and Bryant 1919 A, 15, 17, 139, pl. xlv, fig. 1.

Upper Devonian (Genesee); Kentucky.

Cladodus vanhornei St. John and Worth.

Hay, O. P. 1902 A, 270.

Mississippian (St. Louis); Illinois.

Cladodus wachsmuthi St. John and Worth.

Hay, O. P. 1902 A, 270.

Eastman, C. R. 1908 A, 111.

Mississippian (Kinderhook); Iowa.

Cladodus zygopus Newb. and Worth.

Hay, O. P. 1902 A, 270.

Mississippian (Chester); Illinois.

Cladodus sp. indet.Undetermined species of *Cladodus* have been reported as follows:

Branson, E. B. 1906 A, 1379, pl. xlii, fig. 11. Mississippian (Salem); Indiana.

Clarke, J. M. 1885 A, 72. Upper Devonian (Chemung); New York.

Clarke and Luther 1904 A, 64. Devonian (Chemung); New York.

Eastman, C. R. 1907 B, 20, 63. Upper Devonian (Chemung); New York.

1908 A, 287. Upper Devonian (Chemung); New York.

Twenhofel and Dunbar 1914 A, 160. Pennsylvanian; Kansas.

Van Tuyl, F. M. 1925 A, 140. Mississippian (Burlington); Iowa.

Type *P. sophiæ* St. John and Worth.**Phœbodus duplicatus** (Newb. and Worth.).

Hay, O. P. 1902 A, 267 (Thrinacodus).

Eastman, C. R. 1903 B, 195.

Keyes, C. R. 1897 A, 332.

Mississippian (Keokuk); Iowa.

Phœbodus incurvus (Newb. and Worth.).

Hay, O. P. 1902 A, 195 (Thrinacodus).

Eastman, C. R. 1903 B, 195.

Mississippian (Keokuk); Illinois. Iowa.

Phœbodus knightianus Eastman.

Eastman, C. R. 1913 B, 169; pl. iv, fig. 40.
Permian-Carboniferous (Chase); Nebraska.

Phœbodus macisaacsii (St. John and Worth.).

Hay, O. P. 1902 A, 270.
Eastman, C. R. 1908 A, 106.
Middle Devonian (Cedar Valley); Iowa.

Phœbodus politus Newb.

Hay, O. P. 1902 A, 270.
Claypole, E. W. 1903 A, 319.
Eastman, C. R. 1907 B, 18, 50, 233; pl. i, fig. 12.
1903 A, 106, 282; pl. i, fig. 9.

Hussakof, L. 1908 A, 28.

Upper Devonian (Cleveland); Ohio.

Phœbodus sophiæ St. John and Worth.

Hay, O. P. 1902 A, 270.
Eastman, C. R. 1908 A, 107 (Syn.? of *P. macisaacsii*).
Middle Devonian (Cedar Valley); Iowa.

Phœbodus springeri (St. John and Worth.).

Hay, O. P. 1902 A, 270.
Mississippian (Kinderhook, Burlington); Iowa.

LAMBODODUS St. John and Worth. Type *L. costatus* St. John and Worth.

Hay, O. P. 1902 A, 270.
Hay, O. P. 1901 B, 66.
Jordan, D. S. 1923 A, 92.
Traquair, R. H. 1905 A, 83.

Lambdodus calceolus St. John and Worth.

Hay, O. P. 1902 A, 270.
Mississippian (Burlington); Iowa, Illinois: (Keokuk); Illinois, Iowa, Missouri.

Lambdodus costatus St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Burlington); Iowa, Illinois: (Keokuk); Illinois, Iowa, Missouri.

Lambdodus hamulus St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Chester); Illinois.

Lambdodus reflexus St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Chester); Illinois.

Lambdodus transversus St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (St. Louis); Illinois.

CARCHAROPSIS Agassiz. Type *C. prototypus* Agassiz.

Hay, O. P. 1902 A, 271.
Ardt, T. 1923 A, 484.
Barkas, W. J. 1874 D, 545.
Bronn, H. G. 1848 A, 220.
1849 A, 646.
Eastman, C. R. 1917 A, 256 (Dierenodus).
Giebel, C. G. 1855 A, 116 (Dierenodus).
Hay, O. P. 1901 B, 66.
Jordan, D. S. 1919 B, 214 (Syn. of Dierenodus).
1920 C, 422 (Syn. of Dierenodus).
1923 A, 93.
Karpinsky, A. 1902 A, 214.

Carcharopsis texanus (Eastman).

Eastman, C. R. 1917 A, 256, pl. vii, fig. 4.
(Dierenodus).
Pennsylvanian; Texas.

Carcharopsis wortheni Newb.

Hay, O. P. 1902 A, 271.
Eastman, C. R. 1917 A, 256.
Mississippian; Alabama.

HYBOCLADODUS St. John and Worth. Type *H. plicatilis* St. J. and Worth.

Hay, O. P. 1902 A, 271.
1901 B, 66.
Jordan, D. S. 1923 A, 92.
Traquair, R. H. 1905 A, 83.

Hybocladodus compressus (Newb. and Worth.).

Hay, O. P. 1902 A, 271.
Mississippian (Burlington); Iowa.

Hybocladodus intermedius St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Keokuk); Illinois, Iowa.

Hybocladodus nitidus St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Chester); Illinois.

Hybocladodus plicatilis St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Burlington); Iowa.

Hybocladodus tenuicostatus St. John and Worth.

Hay, O. P. 1902 A, 271.
Mississippian (Keokuk); Illinois, Iowa.

MONOCLADODUS Claypole. Type *M. clarki* Claypole.

- Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 347, 351.
 Dean, B. 1909 C, 216. (Genus "abandoned.")
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 92.
 Traquair, R. H. 1905 A, 83.

Monocladodus clarki Claypole.

- Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 351.

- Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland); Ohio.

Monocladodus pinnatus Claypole.

- Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 352.
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland); Ohio.

SYMMORIIDÆ Dean.

- Dean, B. 1909 C, 242.

SYMMORIUM Cope. Type *S. reniforme* Cope.

- Hay, O. P. 1902 A, 271.
 Braus, H. 1901 A, 189.
 Dean, B. 1902 A, 769, 772.
 1909 C, 253.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 92.
 Regan, C. T. 1906 A, 731.

Symmorium reniforme Cope.

- Hay, O. P. 1902 A, 271.
 Backman, G. 1913 A, 50, 52.
 Braus, H. 1904 A, 412.
 1901 A, 182, fig. 3.
 Goodrich, E. S. 1909 A, 123, fig. 87.
 Pennsylvania; Illinois.

Superorder ICHTHYOTOMI Cope.

- Hay, O. P. 1902 A, 263 (Ichthyotomi, Pleuracanthides.)
 Abel, O. 1912 F, 440.
 1919 A, 116.
 1920 A, 329.
 Arltdt, T. 1923 A, 483 ("ichthyotomen").
 Backman, G. 1915 A, 24.
 Braus, H. 1901 B, 218 ("pleuracanthiden").
 Bridge, T. W. 1904 A, 438, 743.
 Cope, E. D. 1885 EE, 613.
 1891 N, 15.
 1900 A, 22 (Pleuracanthia).
 Dean, B. 1894 A, 110.
 1900 A, 22.
 1902 C, 702.
 1909 C, 242.
 Depéret, C. 1907 B ("ichthyotomes").
 Eastman, C. R. 1902 C, 702.
 1907 B, 23, 58.
 1908 A, 69, 101.
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1904 A, 493.
 1908 A, 753 (Pleuracanthodii).
 1909 A, 180 (Pleuracanthodii).
 Gregory, W. K. 1907 D, 445 (Ichthyotomi, Pleuracanthidæ).

- Häckel, E. 1893 A, xxiv (Proselachii).
 Jordan, D. S. 1905 A, i, 516, 520; ii, 218, 576.
 1907 B, 186, 219, 758.
 1923 A, 91.
 Kehler, F. A. 1896 A, 348 ("proselachier").
 Lütken, C. 1868 C (Pleuracanthini).
 Osburn, R. C. 1907 A, 415 ("primitive sharks").
 Parker and Haswell 1897 A, 155 (Pleuracantha).
 Pompeckj, J. F. 1913 A, 1121.
 Regan, C. T. 1906 A, 722.
 1912 A, 836.
 Reynolds, S. H. 1897 A, 31, 62, 116, 130.
 Rosén, N. 1916 A, 10, 30.
 Schlosser, M. 1917 A, 147, 148.
 Sewertzoff, A. N. 1926 A, 536 (Pleuroacanthodii).
 1926 B, 577.
 Stromer, E. 1912 A, 23.
 Versluys, J. 1922 B, 102.
 Woodward, A. S. 1911 C, 46 ("pleuracanth").
 1921 B, 33.
 1922 C, 66.
 1924 A, 108.
 Zittel and Koken 1911 A, 41.
 Zittel and Schlosser 1923 A, 47, 49.
 Zittel and Woodward 1902 A, 22.

XENACANTHIDÆ Hoernes.

- Hoernes, R. 1886 A, 544 (earliest?).

Unless otherwise indicated the authors, as quoted, use for this family the name Pleuracanthidæ.

- Hay, O. P. 1902 A, 263.
 Abel, O. 1919 A, 118.
 Arltdt, T. 1907 D, 252, 283 (Xenacanthidæ).
 Backman, G. 1913 A, 49 ("pleuracanthiden").
 Braus, H. 1901 A, 190 ("pleuracanthiden").
 1904 A, 395 ("xenacanthiden").
 1906 A, 173 ("xenacanthiden").
 Bridge, T. W. 1904 A, 440.

- Cope, E. D. 1891 N, 15.
 Dean, B. 1894 A ("xenacanthids").
 1906 B, 155 ("pleuracanth").
 Dollo, L. 1889 F, 338.
 1903 D, 701 ("pleuracanth").
 1906 B, 136 ("pleuracanthiens").
 Evans, H. M. 1923 A, 17.
 Fuchs, H. 1907 C, 27 ("pleuracanthiden").
 Fürbringer, M. 1902 A, 194 (Xenacanthidæ).
 1904 B, 459, 489 ("pleuracanthiden").
 Gnapp, E. 1905 D, 877 ("pleuracanthiden").
 Gill, T. 1898 A, 697 (Xenacanthini).

- Goodrich, E. S. 1909 A, 183.
 Hay, O. P. 1901 B, 66, 69.
 Hilzheimer, M. 1913 A, 470.
 Hussakof, L. 1914 A, 267 ("pleuracanthus").
 Jaekel, O. 1909 D, 717 ("pleuracanthiden").
 1911 A, 61 ("pleuracanthiden").
 1913 A, 91 ("pleuracanthiden").
 Jordan, D. S. 1905 A, i, 520; ii, 586.
 1907 B, 758.
 1923 A, 91 (Xenacanthidæ).
 Klaatsch, H. 1890 A, 122 ("xenacanthiden").
 Koken, E. 1893 B, 253 ("pleuracanthiden").
 1904 A, 305 ("pleuracanthiden").
 Matthes, E. 1921 A, 225 (Pleuracanthus).
 Osburn, R. C. 1907 B, 173.
 Pompeckj, J. F. 1913 A, 1122 (Pleuracanthi).
 Rosen, N. 1916 A, 10.
 Schlosser, M. 1917 A, 133 ("pleuracanthiden").
 Schmalhausen, J. J. 1916 B, 147.
 Stensiö, E. A. 1925 A, 126 ("pleuracanthids").
 Stromer, E. 1925 A, 19.
 Traquair, R. H. 1900 C, 505, 506.
 Woodward, A. S. 1920 B, 5.
 Zittel and Koken 1911 A, 42.
 Zittel and Schlosser 1923 A, 50.
 Zittel and Woodward 1902 A, 23.

XENACANTHUS Beyrich. Type *Orthacanthus decheni* Goldfuss.

- Beyrich, E. 1848, Archiv Min., Geog., etc., Berlin, 24.
 Unless otherwise indicated the authors, as cited, use *Pleuracanthus*, which is preoccupied.
 Hay, O. P. 1902 A, 263.
 Abel, O. 1907 D, (159).
 1908 E, 410, fig. 4.
 1919 A, 118, fig. 76.
 1920 A, 329.
 1921 A, 160, fig. 25.
 Backman, G. 1913 A, 48.
 Barkas, W. J. 1874 D, 547, 548 (Pleuracanthus, Xenacanthus).
 Beyrich, E. 1848 B, 646.
 Braus, H. 1904 A, 395, fig. 6 (Xenacanthus).
 Bridge, T. W. 1904 A, 438, 751, fig. 250.
 Broili, F. 1904 B, 483.
 Bronn, H. G. 1849 A, 640.
 Case, E. C. 1915 A, 124.
 1926 B, 195 (Pleuracanthus).
 Cope, E. D. 1891 N, 15, fig. 6.
 Cunningham, J. T. 1897 A, 492, 496.
 1912 A, 253.
 Deecke, W. 1913 A, 72.
 Dollo, L. 1889 F, 335.
 1906 B, 136.
 Eastman, C. R. 1908 A, 103, fig. 16.
 Evans, H. M. 1923 A, 17, text-figs. 10-14.
 Fürbringer, M. 1902 A, 194 (Xenacanthus).
 Gill, T. 1881 A, 370.
 Gaupp, E. 1905 D, 874.
 Goette, A. 1901 A, 564, fig.
 Goodrich, E. S. 1904 A, 493 (Xenacanthus).
 1901 A, 315, figs. D, E.
 1909 A, 180, figs. 146-151.
 Gregory, W. K. 1904 A, 59.
 1915 D, 345.
 Hay, O. P. 1901 B, 66 (Pleuracanthus, Xenacanthus).
 Hilzheimer, M. 1913 A, 470, fig. 5.
 Huber, O. 1901 A, 605 (Xenacanthus).
 Hussakof, L. 1911 A, 157.
 1914 A, 266.
 Huxley, T. H. 1862 A, xlix.
 Jaekel, O. 1905 C, 137; fig. 2.
 1906 A, 14, fig. 7.
 1906 C, 155.
 1911 A, 60; fig. 61.
 1913 A, 78, fig. 1.
 Jordan, D. S. 1905 A, i, 521 (Orthacanthus, Xenacanthus).
 Jordan, D. S. 1919 B, 213 (Orthacanthus); 233 (Xenacanthus).
 1923 A, 92 (Xenacanthus).
 Kehrer, F. A. 1896 A, 348.
 Kingsley, J. S. 1925 A, 29, fig. 29.
 Koken, E. 1897 B, 253 (Xenacanthus).
 1907 A, 268.
 Luther, A. 1909 A, 14, 49.
 Meek, A. 1916 A, 34, 38.
 Osburn, R. C. 1907 A, 425.
 1907 B, 172.
 Oswald, F. 1911 A, 407, fig. 6.
 Pompeckj, J. F. 1913 A, 1123, fig. 22.
 Price, P. H. 1927 A, 228, text-fig. 9.
 Reis, O. M. 1894 A, 61.
 Reynolds, S. H. 1897 A, 130.
 Schmalhausen, J. J. 1913 A, 21.
 Sewertzoff, A. N. 1923 B.
 1926 B, 578, fig. 12c.
 Steinmann, G. 1907 A, 402, figs. 697, 698.
 Stensiö, E. A. 1925 A, 206.
 1925 B, 189.
 Thomson, J. 1873 A, 187.
 Traquair, R. H. 1898 B, 46.
 Wellburn, E. D. 1901 B, 161.
 Woodward, A. S. 1898 B, 20, 33, figs. 17, 18, 22, 26.
 1915 B, lxxv.
 1921 B, 30, 33, fig. 1.
 1922 C, 66, fig. 62.
 1924 A, 108, fig. 2.
 1924 B, 340.
 Zierler, F. E. 1905 A, 511.
 Zittel and Koken 1911 A, 43, fig. 55.
 Zittel and Schlosser 1923 A, 50, figs. 66-69.
 Zittel and Woodward 1902 A, 23.
 Jordan (1923 A, 91) regards *Orthacanthus* as a genus distinct from *Xenacanthus*.
Xenacanthus arcuatus (Newb.).
 Hay, O. P. 1902 A, 264 (Pleuracanthus).
 Pennsylvanian (Coal-measures); Ohio.
Xenacanthus biserialis (Newb.).
 Hay, O. P. 1902 A, 264 (Pleuracanthus).
 Pennsylvanian (Coal-measures); Ohio.
Xenacanthus dilatatus (Newb.).
 Hay, O. P. 1902 A, 264 (Pleuracanthus).
 Pennsylvanian; Ohio.

Xenacanthus quadriseriatus (Cope).

Hay, O. P. 1902 A, 264 (Pleuracanthus).

Case, E. C. 1900 A, 700, pl. i, fig. 3 [P. (Orthacanthus)].

1915 A, 96 (Pleuracanthus).

Cope and Matthew 1915 A, pl. iii, fig. 1 (Orthacanthus, Pleuracanthus).

Hussakof, L. 1911 A, 158, pl. xxvi, fig. 3 (Pleuracanthus).

Pennsylvanian (Upper); Illinois: (Wichita, Clear Fork); Texas: (Enid); Oklahoma.

Xenacanthus sp. indet.

Van Tuyl, F. M. 1925 A, 149, 154 (Pleuracanthus).

Mississippian (Burlington, Keokuk); Iowa.

ORTHACANTHUS Agassiz. Type *O. cylindricus* Agassiz.

Hay, O. P. 1902 A, 264.

Barkas, W. J. 1874 D, 547.

Beyrich, E. 1848 B, 649.

Bronn, H. G. 1849 A, 540.

Davis, J. W. 1880 C, 61.

Goldfuss, A. 1847 A, 23, pl. v, figs. 9-11.

Goodrich, E. S. 1909 A, 193.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 213.

1923 A, 91, 92.

Orthacanthus gracilis Newb.

Hay, O. P. 1902 A, 264.

Case, E. C. 1900 A, 701, pl. i, fig. 4 [Pleuracanthus (Orthacanthus)].

1915 A, 96 (Pleuracanthus).

Hussakof, L. 1911 A, 158, pl. xxvi, fig. 4 (Pleuracanthus).

This species belongs not improbably to *Xenacanthus*.

Pennsylvanian (Upper); Ohio.

COMPSACANTHUS Newb. Type *Pleuracanthus laevis* Newb.

Hay, O. P. 1902 A, 265.

Barkas, W. J. 1874 D, 545.

Davis, J. W. 1880 C, 62.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 273 (Syn. of Pleuracanthus).

1923 A, 92.

Compsacanthus laevis Newb.

Hay, O. P. 1902 A, 265.

Pennsylvanian (Linton); Ohio.

DIACRANODUS Garman. Type *Didymodus*? *compressus* Cope = *D. texensis* Cope.

Hay, O. P. 1902 A, 265.

Broili, F., 1904 B, 467.

Case, E. C. 1915 A, 124.

Hay, O. P. 1901 B, 66.

Hussakof, L. 1911 A, 159.

1914 A, 266.

Jordan, D. S. 1919 B, 186 (Diacranodus).

1923 A, 92.

Diacranodus platypternus (Cope).

Hay, O. P. 1902 A, 265.

Beede, J. W. 1907 A, 119.

Case, E. C. 1915 A, 96.

Eastman, C. R. 1903 B, 168 (Diplodus).

Hussakof, L. 1908 A, 28 (Pleurocanthus).

1911 A, 160, pl. xxx, fig. 8.

Permian (Wichita? Clear Fork?); Texas.

Diacranodus texensis (Cope).

Hay, O. P. 1902 A, 265.

Beede, J. W. 1907 A, 119, 139 (=D. compressus?).

Broili, F. 1904 B, 467, pls. xxiv, xxv.

Case, E. C. 1900 A, 701, pl. i, fig. 5 (Pleuracanthus compressus).

1902 B, 62, 63 (D. compressus?).

1915 A, 96.

Cope and Matthew 1915 A, pl. iii, figs. 2-4 (D. texensis, Diplodus compressus).

Hickling, G. 1917 A, 79.

Hussakof, L. 1908 A, 28 (Pleurocanthus).

1911 A, 159, pls. xxviii, xxix, pl. xxx, fig. 9.

Jordan, D. S. 1905 A, i, 521 (Diacranodus).

Stromer, E. 1912 A, 4, fig. 4.

Permian (Wichita? Clear Fork?); Texas: (Enid); Oklahoma.

Diacranodus sp. indet.

Wegeman, C. H. 1915 A, 25.

Permian (Wichita); Oklahoma.

DITTODUS Owen. Type *Diplodus gibbosus* Agassiz.

Hay, O. P. 1902 A, 265.

Anonymous 1898 C, 74 (Diplodus).

Atthey, T. 1868 C, 352, 372 (Dittodus); 371 (Diplodus).

Barkas, W. J. 1874 D, 546 (Diplodus).

Bronn, H. G. 1848 A, 427 (Diplodus).

1849 A, 650 (Diplodus).

Case, E. C. 1903 C, 576 (Diplodus).

1917 A, 125 (Diplodus).

Davis, J. W. 1880 C, 61 (Diplodus).

Eastman, C. R. 1907 B, 58 (Diplodus).

1908 A, 104 (Diplodus).

Hay, O. P. 1901 B, 66.

Hussakof and Bryant 1919 A, 144.

Jordan, D. S. 1905 A, i, 521; ii, 567.

1907 B, 186.

1919 B, 180.

1923 A, 92.

Price, P. H. 1927 A, 215, 219, pls. xiv, xix; text-fig. 10 (Diplodus); 228 (Dittodus).

Ridewood, W. G. 1896 A, 383 (Diplodus).

Thomson, J. 1872 A, 66 (Diplodus).

1873 A, 187 (Diplodus).

Twenhofel and Dunbar 1914 A, 160 (Diplodus).

- Wellburn, E. D. 1901 B, 162 (*Diplodus*; syn. of *Pleuracanthus*).
 Williamson, W. C. 1851 A, 680 (*Diplodus*).
 Zittel and Koken 1911 A, 43 (*Diplodus*).
 Zittel and Schlosser 1923 A, 52 (*Dittodus*, *Diplodus*).
- Dittodus acinaces* (Dawson).**
 Hay, O. P. 1902 A, 266.
 Lambe, L. M. 1904 C, 19, 35, 40.
 Carboniferous (Coal Measures); Nova Scotia.
- Dittodus compressus* (Newb.).**
 Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1902 B, 97 (*Pleuracanthus*).
 1902 G, 540 (*Pleuracanthus*).
 1903 B, 167, 194 (*Pleuracanthus*).
 Hayden, F. V. 1872 A, 127 (*Diplodus*).
 Meek, F. B. 1869 A, 3 (*Diplodus*).
 1872 A, 127 (*Diplodus*).
 Pennsylvanian; Ohio, Indiana, Illinois.
- Dittodus gibbosus* (Binney).**
 Hay, O. P. 1902 A, 266.
 Coal-measures; England: Permian; Texas.
 The Texan specimens may have been wrongly identified.
- Dittodus grabau* Hussakof and Bryant.**
Hussakof and Bryant 1919 A, 15, 147, text-fig. 52.
 Upper Devonian (Genesee); New York.
- Dittodus gracilis* (Newb.).**
 Hay, O. P. 1902 A, 266.
 Pennsylvanian; Ohio.
- Dittodus latus* (Newb.).**
 Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1902 B, 97 (*Diplodus*).
 1902 G, 540 [*Pleuracanthus* (*Diplodus*)].
 1903 B, 194 [*Pleuracanthus* (*Diplodus*)].
 Hussakof, L. 1908 A, 28.
 Pennsylvanian; Indiana, Ohio, Illinois.
- Dittodus lucasi* Hay.**
 Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1902 B, 97 (*Diplodus*).
 1902 G, 540 [*Pleuracanthus* (*Diplodus*)].
 1903 B, 194 [*Pleuracanthus* (*Diplodus*)].
 Merrill, G. P. 1907 A, 10.
 Pennsylvanian; Illinois.
- Dittodus penetrans* (Dawson).**
 Hay, O. P. 1902 A, 266.
 Lambe, L. M. 1904 C, 19, 35, 40.
 Whiteaves, J. F. 1903 B, 29 (*Diplodus*. This species?).
 Pennsylvanian; Nova Scotia.
- Dittodus priscus* (Eastman).**
 Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1907 B, 20, 59, pl. i, figs. 7, 8 (*Diplodus*).
 1908 A, 104, 286, pl. i, figs. 5, 13 (*Diplodus*).
 Hussakof and Bryant 1919 A, 15, 17, 144, pl. xlv, figs. 3-3b, text-fig. 51.
 Upper Devonian; Illinois: (Genesee); New York.
- Dittodus striatus* (Eastman).**
 Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1907 B, 20, 60, pl. i, figs. 10, 11 (*Diplodus*).
 1908 A, 105, 286, pl. i, figs. 1, 16 (*Diplodus*).
 Hussakof and Bryant 1919 A, 15, 17, 146.
 Upper Devonian; Illinois: (Genesee); New York.
- Dittodus washingtonensis* (Stauffer and Schroyer).**
Stauffer and Schroyer 1920 A, 147, pl. xiii, fig. 40 (*Diplodus*).
 Permian (Washington); Ohio.
- Dittodus* sp. indet.**
 Doubtful remains of this genus are reported as follows:
 Bell, W. A. 1913 A, 340, 343 (*Diplodus*). Pennsylvanian (Joggins); Nova Scotia.
 Bradley, F. H. 1866 A, 71 (*Diplodus*). Devonian (Hamilton); New York.
 Eastman, C. R. 1907 B, 20 (*Diplodus*). Upper Devonian; Illinois.
 1908 A, 286 (*Diplodus*).
 Hussakof and Bryant 1919 A, 19, 149. Upper Devonian (Portage); New York: (Tully); New York.
 Twenhofel and Dunbar 1914 A, 160. Pennsylvanian; Kansas.
 Williston, S. W. 1897 K, 395 ("Didymodus"). Permian; Kansas.

PROTODUS A. S. Woodward. Type *P. jexi* A. S. Woodward.

- Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1902 B, 56.
 1902 H, 150.
 1903 D, 285.
 1908 A, 100.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 92.
 Whiteaves, J. F. 1907 B, 255.
 Woodward, A. S. 1904 C, 188, fig. 2.
 1915 B, lxvi, fig. 1.
 1920 B, 5.
 Zittel and Woodward 1902 A, 20.
- Protodus jexi* A. S. Woodward.**
 Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1907 B, 13.
 1908 A, 275.
 Jaekel, O. 1895 C, 161.
 Lambe, L. M. 1904 C, 33, 40.
 Whiteaves, J. F. 1907 B, 256.
 Lower Devonian; New Brunswick.

THRINACODUS St. John and Worth. Type *T. nanus* St. John and Worth.

Hay, O. P. 1902 A, 266.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 380.
 1923 A, 92.

Thrinacodus bicornis Newb.

Hay, O. P. 1902 A, 267.

Branson, E. B. 1906 A, 1394.
 Mississippian (Salem); Indiana.

Thrinacodus nanus St. John and Worth.

Hay, O. P. 1902 A, 267.
 Mississippian (Kinderhook); Iowa.

DOLIODUS Traquair. Type *Diplodus problematicus* A. S. Woodward.

Hay, O. P. 1902 A, 267.
 Hay, O. P. 1901 B, 66.

Doliodus problematicus (A. S. Woodward).

Hay, O. P. 1902 A, 267.

Eastman, C. R. 1907 B, 13.
 1908 A, 275.
 Jaekel, O. 1895 C, 161 (*Diplodus*).
 Lambc, L. M. 1904 C, 16, 33, 40.
 Whiteaves, J. F. 1907 B, 257.
 Lower Devonian; New Brunswick.

Order ACANTHODEI Owen.

Owen, R. 1846 E, 50.
 Hay, O. P. 1902 A, 273 (*Acanthodii*).
 Abel, O. 1919 A, 147.
 1920 A, 332.
 1921 A, 249 (*Acanthodii*).
 Agassiz, L. 1844 D, 142 ("acanthodiens").
 Arltdt, T. 1923 A, 483 ("acanthoden").
 Barrell, J. 1915 B, 392, 402 (*Acanthodii*).
 Bridge, T. W. 1904 A, 440.
 Bronn, H. G. 1849 A, 780 seq.
 Cope, E. D. 1891 N, 15, 18.
 Cunningham, J. T. 1912 A, 253 ("acanthodians").
 Dean, B. 1894 A, 88, 105, 109, 111 ("acanthodians").
 1900 A, 22, 28 (*Acanthodia*).
 1902 A, 770 ("acanthodians").
 1907 B, 220 (*Acanthodia*).
 1909 C, 242 (*Acanthodia*).
 1912 A, 227 ("acanthodians").
 Dollo, L. 1906 B, 135 ("acanthodiens").
 Eastman, C. R. 1902 B, 92 (*Acanthodii*).
 1907 B, 23, 63 (*Acanthodii*).
 1908 A, 59, 69, 95, 112 (*Acanthodii*).
 Frech, F. 1897 A, 123 (*Acanthodii*).
 Giebel, C. G. 1855 A, 113 (*Acanthodii*).
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1904 A, 492 (*Acanthodii*).
 1908 A, 771 (*Acanthodii*).
 1909 A, 187 (*Acanthodii*).
 Gregory, W. K. 1907 D, 445.
 1915 D, 320, 343 (*Acanthodii*).
 Haller, G. 1926 A, 447, 456 (*Acanthodi*).
 Hay, O. P. 1901 B, 69 (*Acanthodii*).
 Huene, F. 1926 A, 260 ("acanthodi").

Hussakof and Bryant 1919 A, 127, 140 (*Acanthodii*).
 Jaekel, O. 1911 A, 69, 72 (*Acanthodi*).
 Jordan, D. S. 1905 A, i, 514; ii, 555.
 1907 B, 758.
 1923 A, 91.
 Kiaer, J. 1924 A, 100, 101, 102, 104, 108, 110 (*Acanthodii*).
 Lütken, C. 1868 C (*Acanthodini*).
 Meek, A. 1916 A, 34, 36.
 Owen, R. 1860 E, 130 (*Acanthodii*).
 1866 A, 12.
 Parker and Haswell 1897 A, 155 (*Acanthodea*).
 Pompeckj, J. F. 1913 A, 1120 (*Acanthodi*).
 Rëgan, C. T. 1906 A, 722 (*Acanthodii*).
 Rosén, N. 1916 A, 10, 30 (*Acanthodii*).
 Schlosser, M. 1917 A, 133, 134, 147 ("acanthodier").
 Schuchert and Levene 1927 A, 288 ("acanthodians").
 Steinmann, G. 1907 A, 405 (*Acanthodini*).
 Stromer, E. 1912 A, 23, 47 (*Acanthodii*).
 1920 A, 11, 14, 17 (*Acanthodi*).
 Versluys, J. 1922 B, 102 (*Acanthodi*).
 1922 C, 62 (*Acanthodii*).
 Woodward, A. S. 1906 A, 313 (*Acanthodii*).
 1906 C, 270 ("acanthodians").
 1910 D, 31 ("acanthodians").
 1911 C, 45 ("acanthodian sharks").
 1917 A, 75 ("acanthodians").
 1924 A, 106 ("acanthodians").
 Zittel and Koken 1911 A, 46 (*Acanthodi*).
 Zittel and Schlosser 1923 A, 47 (*Acanthodi*).
 Zittel and Woodward 1902 A, 20 (*Acanthodii*).

GYRACANTHIDÆ Woodward.

Woodward, A. S. 1906 D, 3.
 Goodrich, E. S. 1909 A, 192.

Hussakof and Bryant 1919 A, 124, 142.
 Jordan, D. S. 1923 A, 92.

GYRACANTHUS Agassiz. Type *G. formosus* Agassiz.

Hay, O. P. 1902 A, 335.
 Agassiz, L. 1835 D, 189.
 Atthey, T. 1868 C, 368.
 Barkas, W. J. 1874 D, 546.
 Bronn, H. G. 1848 A, 559.
 1849 A, 649.

Connell, A. 1835 A, 301.
 1835 B, 191 (*Lepidosteus*).
 Dollo, L. 1889 F, 335.
 Eastman, C. R. 1907 B, 86.
 1908 A, 114.
 Goodrich, E. S. 1909 A, 192, fig. 165.

Gregory, W. K. 1915 D, 343.
 Heilprin, A. 1887 A, 152.
 Hussakof and Bryant 1919 A, 140.
 Jordan, D. S. 1919 B, 186.
 1923 A, 92.

Lambe, L. M. 1916 A, 198.
 Osburn, R. C. 1907 A, 432.
 Reis, O. M. 1894 A, 60.
 Thomson, J. 1872 A, 66.
 Woodward, A. S. 1924 A, 107.

Gyracanthus alleni Newb.

Hay, O. P. 1902 A, 335.
 Hussakof, L. 1908 A, 47.
 Newberry, J. S. 1874 G, 98.
 Mississippian (Waverly); Ohio.

Gyracanthus compressus Newb.

Hay, O. P. 1902 A, 335.
 Hussakof, L. 1908 A, 48.
 Newberry, J. S. 1874 G, 98.
 Mississippian (Waverly); Ohio: Indiana.

Gyracanthus? cordatus St. John and Worth.

Hay, O. P. 1902 A, 335.
 Mississippian (Keokuk); Missouri.

Gyracanthus duplicatus Dawson.

Hay, O. P. 1902 A, 335.
 Bell, W. A. 1913 A, 340, 343.
 Lambe, L. M. 1904 C, 19, 35, 42.
 Carboniferous (Joggins); Nova Scotia.

Gyracanthus incurvus Traquair.

Hay, O. P. 1902 A, 335.
 Eastman, C. R. 1907 B, 13.
 1908 A, 276.
 Hussakof and Bryant 1919 A, 143.

Lambe, L. M. 1904 C, 16, 34, 42.
 Whiteaves, J. F. 1907 B, 258.
 Lower Devonian; New Brunswick.

Gyracanthus inornatus Newb.

Hay, O. P. 1902 A, 335.
 Hussakof, L. 1908 A, 48.
 Mississippian (Waverly); Ohio.

Gyracanthus magnificus Dawson.

Hay, O. P. 1902 A, 335.
 Lambe, L. M. 1904 C, 18, 34, 42.
 Mississippian; Cape Breton.

Gyracanthus primævus Eastman.

Eastman, C. R. 1908 A, 114, fig. 17.
 Hussakof and Bryant 1919 A, 143.
 Devonian (Marcellus); New York.

Gyracanthus sarlei Hussakof and Bryant.

Hussakof and Bryant 1919 A, 142, pl. lii, figs. 3-5.
 Upper Devonian (Genesee); New York.

Gyracanthus sherwoodi Newb.

Hay, O. P. 1902 A, 335.
 Butts, C. 1903 A, 991.
 Claypole, E. W. 1903 A, 319.
 Eastman, C. R. 1907 B, 21, 22, 87, 230, pl. iii, fig. 7.
 1908 A, 287, 289.
 Hussakof, L. 1908 A, 48.
 Upper Devonian (Catskill and Chemung); Pennsylvania; (Chemung); New York.

Gyracanthus sp. indet.

Hussakof and Bryant 1919 A, 15, 144, pl. lii fig. 4.
 Upper Devonian (Genesee); New York.

ORACANTHUS Agassiz. Type *O. milleri* Agassiz.

Hay, O. P. 1902 A, 334.
 Barkas, W. J. 1874 D, 547.
 Bronn, H. G. 1848 B, 847.
 1849 A, 649.
 Dames, W. 1898 C, 331.
 Eastman, C. R. 1902 H, 150.
 1917 A, 267.
 Egerton, P. G. 1853 C, 282.
 Etheridge, R. 1877 A, 307, pl. xiii, figs. 4-6.
 Evans, H. M. 1904 A, 399.
 Goodrich, E. S. 1909 A, 193.
 Heilprin, A. 1889 A, 152.
 Jordan, D. S. 1919 B, 186 (Type *O. mülleri* Ag.).
 Woodward, A. S. 1915 B, lxix, fig. 2.

Oracanthus lineatus Newb.

Hay, O. P. 1902 A, 334.
 Mississippian. (Locality and formation not given.)

Oracanthus multiseriatus Newb.

Hay, O. P. 1902 A, 334.
 Claypole, E. W. 1903 A, 318.
 Devonian (Helderberg); Ohio.

Oracanthus? obliquus St. John and Worth.

Hay, O. P. 1902 A, 334.
 Mississippian (St. Louis); Illinois, Missouri, Iowa.

Oracanthus pnigeus Newb. and Worth.

Hay, O. P. 1902 A, 334.
 Mississippian (Keokuk); Iowa.

Oracanthus rectus St. John and Worth.

Hay, O. P. 1902 A, 335.
 Eastman, C. R. 1917 A, 268.
 Mississippian (Chester); Illinois.

Oracanthus triangularis Eastman.

Eastman, C. R. 1917 A, 268, pl. v, figs. 5, 6.
 St. John and Worthen 1883 A, pl. xxiv, fig. 2 (*O. vetustus* fide Eastman).
 Mississippian (St. Louis); Missouri.

Oracanthus trigonalis (St. John and Worth.).

Hay, O. P. 1902 A, 335.
 Mississippian (St. Louis); Missouri.

Oracanthus vetustus Leidy.

- Hay, O. P. 1902 A, 335.
 Abel, O. 1912 F, 569, fig. 442.
 Eastman, C. R. 1902 E, 852.
 1903 B, 213.

- Eastman, C. R. 1917 A, 267, 268, pl. vi, fig. 2.
 Karpinsky, A. P. 1925 A, 136.
 Mississippian (Kinderhook, St. Louis, Chester?); Missouri, Illinois.

ACANTHOËSSIDÆ Hay.

Unless otherwise indicated the authors, as quoted, use the name *Acanthodidæ*.

- Hay, O. P. 1902 A, 273 (*Aeanthoëssidæ*).
 Abel, O. 1919 A, 151.
 Arltdt, T. 1907 D, 635.
 1923 A, 483, 490 ("*acanthodiden*").
 Bridge, T. W. 1878 A, 722.
 1904 A, 441.
 Carus, V. 1875 A, 595.
 Cope, E. D. 1891 N, 19.
 Coulon, L. 1903 A, 136.
 Dean, B. 1907 B, 209 ("*acanthodians*").
 Eastman, C. R. 1907 B, 23.
 Goodrich, E. S. 1909 A, 192.
 Gregory, W. K. 1907 D, 445.
 Hay, O. P. 1901 B, 66, 69.
 Hilzheimer, M. 1913 A, 471.
 Hoernes, R. 1886 A, 548.
 Huxley, T. H. 1861 D, 457.
 Jaekel, O. 1899 C, 249 ("*acanthodier*")
 Jordan, D. S. 1905 A, i, 516; ii, 555.
 Jordan, D. S. 1907 B, 758.
 1923 A, 91.
 Kiaer, J. 1924 A, 108 (*Acanthodii*).
 Lönnberg, E. 1901 A.
 Lütken, C. 1871 A, 292, 294 ("*acanthodiens*").
 Osburn, R. C. 1907 A, 425.
 1907 B, 173.
 Owen, R. 1866 A, 12 (*Acanthodei*).
 Pompeckj, J. F. 1913 A, 1121.
 Powrie, J. 1870 A, 287.
 Reis, O. M. 1894 A, 49 ("*acanthodinen*").
 Sewertzoff, A. N. 1923 B, 106.
 Stensiö, E. A. 1925 B, 163 ("*acanthodians*").
 Traquair, R. H. 1880 A, 147.
 1890 A, 21.
 1893 E, 176 ("*acanthodians*").
 Trouessart, E. L. 1906 A, 213.
 Woodward, A. S. 1915 B, lxx ("*acanthodians*").
 Zittel and Koken 1911 A, 47.
 Zittel and Schlosser 1923 A, 48.
 Zittel and Woodward 1902 A, 20.

ACANTHOËSSUS Agassiz. Type *A. bronni* Agassiz.

Unless otherwise indicated the authors, as quoted, use the name *Acanthodes* for this genus. It is antedated by *Acanthoëssus*.

- Agassiz, L. 1832 A, 149.
 Hay, O. P. 1902 A, 273 (*Acanthoëssus*).
 Abel, O. 1912 F, 518.
 1919 A, 152, figs. 113-115.
 1920 A, 332, fig. 528.
 Agassiz, L. 1833 A, 471.
 1835 II, 204.
 1844 C, 269.
 1877 A, 124.
 Allis, E. P. 1905 A, 488.
 Barkas, W. J. 1874 D, 548.
 Bridge, T. W. 1904 A, 442, fig. 251.
 Bronn, H. G. 1848 A, 2.
 1849 A, 656.
 Case, E. C. 1926 B, 105.
 Coulon, L. 1903 A, 136 (*Acanthodes* = *Cheiracanthus*).
 Cunningham, J. T. 1897 A, 496.
 Dean, B. 1894 A, 99.
 1902 A, 768.
 1902 C, 702.
 1907 B, 209.
 Deecke, W. 1913 A, 72.
 Dollo, L. 1906 B, 135.
 Eastman, C. R. 1900 G, 287.
 1902 G, 536.
 Goodrich, E. S. 1908 A, 771, fig. 204.
 1909 A, 505, figs.
 Haller, G. 1926 A, 455, fig. 3.
 Hay, O. P. 1901 B, 66, 69.
 Hoernes, R. 1886 A, 548.
 Huxley, T. H. 1861 D, 444.
 Jaekel, O. 1892 B, 156.
 1899 C, 250, figs. 1, 2.
 1902 A, 108.
 1902 C, 610.
 1903 A, 123.
 1903 F, 48, fig. 10.
 1905 C, 136, fig. 1.
 1906 A, 10, figs. 4, 8.
 1907 A, 180, fig. 6.
 1911 A, 71, fig. 75.
 1913 A, 79, fig. 2.
 1918 A, 231, fig. 1.
 1919 A, 84, 108.
 1921 A, 225, fig. 6.
 1927 A, 266 (*Acanthodes*).
 Jordan, D. S. 1903 A, 135.
 1905 A, i, 516; ii, 555.
 1919 B, 177.
 1923 A, 91.
 Jordan and Evermann 1917 A, 141, 145, 146.
 Kiaer, J. 1924 A, 102, 108.
 Klaatsch, H. 1890 A, 144.
 Koken, E. 1907 A, 269.
 Lütken, C. 1868 C, 69, fig. 11.
 Matthes, E. 1921 A, 220, 225.
 Miner, R. W. 1925 A, 195.
 Oswald, F. 1911 A, 407, fig. 4.
 Pompeckj, J. F. 1913 A, 1120, figs. 18, 19.
 Powrie, J. 1870 A, 287, 288, pl. x.
 Reis, O. M. 1893 A, 495.
 1894 A, 49.
 Rosén, N. 1916 A, 9, fig. 4.
 Smith, B. 1910 A, 662 ("*acanthodian*").
 Traquair, R. H. 1879 B, 115.
 1879 C, 129.

Traquair, R. H. 1890 H, 482, fig. 1.
1893 E, 177.

Whiteaves, J. F. 1907 B, 247 (Mesacanthus).

Woodward, A. S. 1900 E, 203.

1906 C, 271, fig. 4.

1922 C, 63, fig. 60.

1924 A, 107, fig. 1.

Zittel and Koken 1911 A, 47.

Zittel and Schlosser 1923 A, 48, figs. 63, 64.

Zittel and Woodward 1902 A, 21.

Acanthoëssus affinis (Whiteaves).

Hay, O. P. 1902 A, 273.

Eastman, C. R. 1902 B, 93, 95 (Mesacanthus).

1902 G, 536 (Acanthodes).

1907 B, 16 (Acanthodes).

1908 A, 280 (Acanthodes).

Lambe, L. M. 1904 C, 34, 41 (Acanthodes).

Smith, B. 1910 A, 663 (Acanthodes).

Whiteaves, J. F. 1907 B, 247 (Mesacanthus).

Zittel and Woodward 1902 B, 21 (Mesacanthus).

Upper Devonian; Quebec.

Acanthoëssus beecheri (Eastman).

Eastman, C. R. 1902 B, 94, 97, fig. 14 (Acanthodes).

Eastman, C. R. 1902 G, 537, fig. 2 (Acanthodes).

1903 B, 194 (Acanthodes).

Pennsylvanian (Mazon Creek); Illinois.

Acanthoëssus concinnus (Whiteaves).

Hay, O. P. 1902 A, 273.

Clarke, J. M. 1913 A, 113 (Acanthodes).

Eastman, C. R. 1902 B, 93 (Mesacanthus).

1907 B, 16 (Acanthodes).

1908 A, 280 (Acanthodes).

Hussakof and Bryant 1919 A, 141, pl. fi, figs. 2, 3; text-fig. 50 (Acanthodes).

Lambe, L. M. 1904 C, 34, 41 (Acanthodes).

Smith, B. 1910 A, 663 (Acanthodes).

Whiteaves, J. F. 1907 B, 246 (Acanthodes).

Upper Devonian (Scaumenac); Quebec.

Acanthoëssus marshi (Eastman).

Eastman, C. R. 1902 B, 93, 97, pl. vi, fig. 3; pl. vii, figs. 1, 2 (Acanthodes).

Eastman, C. R. 1901 A, 795 (Acanthodes sp.).

1902 G, 536, fig. 1 (Acanthodes).

1903 B, 194 (Acanthodes).

Pennsylvanian (Mazon Creek); Illinois.

Acanthoëssus? pristis (Clarke).

Hay, O. P. 1902 A, 273.

Clarke and Luther 1904 A, 62 (Acanthodes).

Eastman, C. R. 1902 B, 92 (Acanthodes?).

1902 G, 536 (Acanthodes).

1907 B, 17, 64 (Acanthodes?).

1908 A, 113, 281 (Acanthodes?).

Merrill, G. P. 1907 A, 5 (Acanthodes?).

Smith, B. 1910 A, 663 (Acanthodes?).

Upper Devonian (Portage); New York.

Acanthoëssus semistriatus (A. S. Woodward).

Hay, O. P. 1902 A, 273.

Eastman, C. R. 1907 B, 13 (Acanthodes).

1908 A, 275 (Acanthodes).

Lambe, L. M. 1904 C, 34, 41 (Acanthodes).

Smith, B. 1910 A, 663 (Acanthodes).

Whiteaves, J. F. 1907 B, 256 (Mesacanthus).

Lower Devonian; New Brunswick.

CHEIRACANTHUS Agassiz. Type *C. murchisoni* Agassiz.

Hay, O. P. 1902 A, 274.

Agassiz, L. 1844 C, 269.

Barkas, W. J. 1874 D, 548 (Sphagodus); 549 (Cheiracanthus).

Bronn, H. G. 1848 A, 285.

1849 A, 656.

Coulon, L. 1903 A, 136 (= Acanthodes).

Dean, B. 1902 A, 768.

1907 B, 209.

Dollo, L. 1889 F, 337 (Sphenacanthus).

Egerton, P. G. 1861 B, 1, pl. x.

Goodrich, E. S. 1909 A, 189, fig. 158.

Hay, O. P. 1901 B, 66.

Huxley, T. H. 1861 D, 458.

Jordan, D. S. 1905 A, i, 517.

1923 A, 91.

Klaatsch, H. 1890 A, 144.

Osborn, H. F. 1917 B, 170, fig.

Zittel and Koken 1911 A, 47.

Zittel and Schlosser 1923 A, 49.

Zittel and Woodward 1902 A, 21.

Cheiracanthus costellatus Traquair.

Hay, O. P. 1902 A, 274.

Eastman, C. R. 1907 B, 13.

1908 A, 275.

Lambe, L. M. 1904 C, 34, 41.

Smith, B. 1910 A, 663.

Whiteaves, J. F. 1907 B, 256.

Zittel and Woodward 1902 A, 27 (Sphenacanthus).

Devonian (Lower); New Brunswick.

DIPLACANTHIDÆ Cope.

Cope, E. D. 1891 N, 19.

Hay, O. P. 1902 A, 274.

Arlt, T. 1923 A, 483 ("diplicanthiden").

Bridge, T. W. 1904 A, 441.

Eastman, C. R. 1907 B, 23.

1908 A, 112.

1917 A, 237.

Gregory, W. K. 1907 D, 445.

Jaekel, O. 1911 A, 72 (Diplacanthi).

Jordan, D. S. 1905 A, i, 517; ii, 566.

1907 B, 758.

1923 A, 91.

Kiaer, J. 1924 A, 102.

Osburn, R. C. 1907 A, 425.

Zittel and Koken 1911 A, 48.

Zittel and Schlosser 1923 A, 49.

Zittel and Woodward 1902 A, 22.

DIPLOACANTHUS Agassiz. Type *D. crassissimus* Duff.

- Hay, O. P. 1902 A, 274.
 Agassiz, A. 1844 C, 269.
 1877 A, 124.
 Barkas, W. J. 1874 D, 550.
 Bridge, T. W. 1904 A, 440.
 Bronn, H. G. 1848 A, 426.
 1849 A, 656.
 Dean, B. 1902 A, 768.
 1907 B, 209.
 Egerton, P. G. 1854 A, 369.
 Hay, O. P. 1901 B, 66.
 Jaekel, O. 1911 A, 72, fig. 76.
 Jordan, D. S. 1919 B, 210.
 1923 A, 91.
 Kiaer, J. 1924 A, 103, fig. 47.
 Osborn, H. F. 1916 E, 606, fig. 14.
 1917 B, 167, 170, fig.
 Powrie, J. 1870 A, 287, 289, pl. x.
 Traquair, R. H. 1893 E, 177.
 Zittel and Koken 1911 A, 48.
 Zittel and Woodward 1902 A, 22.
Diplacanthus crassissimus Duff.
 Hay, O. P. 1902 A, 274.
- Clarke, J. M. 1913 A, 115 (*D. striatus*).
 Dean, B. 1907 B, 218 (*D. striatus*).
 Eastman, C. R. 1907 B, 16 (*D. striatus*).
 1908 A, 280 (*D. striatus*).
 Lambe, L. M. 1904 C, 34, 40 (*D. striatus*).
 Smith, B. 1910 A, 663 (*D. striatus*).
 Devonian (Lower Old Red); Scotland.
 Upper Devonian (Scaumenac); Quebec.

Diplacanthus horridus Woodward.

- Woodward, A. S. 1892 C, 482, pl. xiii, fig. 1.
 Clarke, J. M. 1913 A, 115.
 Eastman, C. R. 1907 B, 16.
 1908 A, 280.
 Lambe, L. M. 1904 C, 34, 40.
 Smith, B. 1910 A, 663.
 Whiteaves, J. F. 1907 B, 247.
 Upper Devonian (Scaumenac); Quebec.

Diplacanthus sp. indet.

- Cockerell, T. D. A. 1913 A, 246.
 Ordovician; Colorado.

CLIMATIUS Agassiz. Type *C. reticulatus* Agassiz.

- Hay, O. P. 1902 A, 274.
 Abel, O. 1907 D, (161).
 1912 F, 207, 518, fig. 142.
 1920 A, 333, fig. 528.
 1921 A, 249, fig. 91.
 Barkas, W. J. 1874 D, 549.
 Barrell, J. 1915 B, 394.
 Böker, H. 1927 A, 36.
 Bridge, T. W. 1904 A, 441.
 Bronn, H. G. 1848 A, 308.
 1849 A, 653.
 Cope, E. D. 1891 N, 19.
 Cunningham, J. T. 1912 A, 252.
 Dean, B. 1902 A, 768.
 1907 B, 209.
 1909 C, 244, fig. 39.
 Derjugin, K. 1910 B, 209.
 Hay, O. P. 1901 B, 66.
 Goodrich, E. S. 1909 A, 192, fig. 164.
 Jordan, D. S. 1905 A, i, 516; ii, 563.
 1919 B, 225.
 1923 A, 91.
- Kerr, J. G. 1900 A, 230.
 Kiaer, J. 1924 A, 103, fig. 46.
 Oswald, F. 1911 A, 407, fig. 2.
 Powrie, J. 1870 A, 287, 289, pls. xiii, xiv.
 Pompeckj, J. F. 1913 A, 1121.
 Traquair, R. H. 1900 C, 22.
 Woodward, A. S. 1897 C, 379.
 1906 A, 271, fig. 4.
 Zittel and Koken 1911 A, 48.
 Zittel and Schlosser 1923 A, 49, fig. 65.
 Zittel and Woodward 1902 A, 22.

Climatius latispinosus (Whiteaves).

- Hay, O. P. 1902 A, 274 (*Climatius?*).
 Eastman, C. R. 1907 B, 13.
 1908 A, 276.
 Lambe, L. M. 1904 C, 33, 41 (*Climatius?*).
 Smith, B. 1910 A, 663 (*Climatius?*).
 Whiteaves, J. F. 1907 B, 257 (*Climatius?*).
 Lower Devonian; New Brunswick.

Superorder ARISTOSELACHII Hay.

- Hay, O. P. 1902 A, 252, 795 (*Aristoselachii*);
 274 (*Euselachii*).
 Dean, B. 1902 C, 702 (*Selacha*).
 1909 C, 243 (*Euselachii*).
 Haeckel, E. 1868 A, 444 (*Plagiostomi*).
- Hussakof and Bryant 1919 A, 127 (*Euselachii*).
 Jordan, D. S. 1923 A, 97 (*Euselachii*).
 Parker and Haswell 1897 A, 156 (*Selachii*).
 Regan, C. T. 1906 A, 722, 739 (*Euselachii*).
 1912 A, 837 (*Euselachii*).

Order SELACHII Richardson.

- Richardson, J. 1836 A, 287.
 Hay, O. P. 1902 A, 274 (*Selacha*).
 Abel, O. 1912 F, 676 ("haifische").
 1920 A, 329 ("plagiostomen").
 Ahlborn, F. 1896 B, 1 ("haifische").
 Allis, E. P. 1909 A, 202.
 1913 A, 322 ("selachians").
- Allis, E. P. 1915 A.
 1917 A, 105.
 1919 C, 256.
 1922 B, 198.
 1923 B.
 1926 A, 166.
 1926 B, 339 (*Plagiostomi*).

- Anonymous 1898 A, 373 (Selachoidea).
 Arldt, T. 1907 D, 681.
 1923 A, 483 ("plagiostomen").
 Bachr, W. B. 1906 A, 629 ("selachier").
 Bardeleben, K. 1893 A, 168 ("selachier").
 Barrell, J. 1915 B, 402.
 Beer, G. R. 1924 B, 59 ("selachians").
 1924 C, 289 ("selachians").
 1926 A, 266.
 Beyer, H. 1907 A, 266 ("selachier").
 Bolk, L. 1914 A, 118 ("selachier").
 1915 A, 106.
 1922 B, 69.
 Bonaparte, C. L. 1838 C, 197 (Selacha).
 1839 A, 3 (Selacha).
 1840 A, 44 (Selacha).
 Braus, H. 1899 A, 520 ("haie").
 1906 B, 549 ("selachier").
 Bridge, T. W. 1878 A, 706.
 1904 A, 442 (Plagiostomi).
 Brohl, E. 1909 A, 345 ("selachier").
 Carter, J. T. 1905 A, 136.
 Carus, V. 1875 A, 598 (Plagiostomi).
 Collinge, W. E. 1893 C, 269 (Selachia).
 Cope, E. D. 1891 N, 15.
 Dana, J. C. 1863 C, 343 ("selachians").
 1906 B, 549 ("selachians").
 Dean, B. 1900 A, 22.
 1906 B, 152 ("sharks").
 1916 A ("fishes").
 Dollo, L. 1889 E, 152 ("requins").
 Dombrowski, B. A. 1925 A, 79 ("selachier").
 Dormitzer, M. 1852 A, 61 ("selachier").
 Drüner, L. 1904 A, 266 ("selachier").
 Eastman, C. R. 1907 B, 23, 64.
 1908 A, 69.
 Edgeworth, F. H. 1907 A, 530 ("selachians").
 1926 A, 173.
 Eimer, G. H. T. 1901 A, 262 ("selachier").
 Eternod, A. C. F. 1900 A, 176 ("requins").
 Frassetto, F. 1915 A ("selaci").
 Fürbringer, M. 1902 A (Selacha).
 Gaupp, E. 1905 D, 868 ("haie").
 1910 C.
 Gegenbaur, C. 1870 B, 448 ("selachier").
 Gill, T. 1905 A, 657.
 Goepfert, E. 1897 A, 244 ("selachier").
 Goette, A. 1901 A, 548 ("selachier").
 Goodrich, E. S. 1909 A, 135.
 1918 A, 12 ("selachians").
 Gregory, W. K. 1928 A, 3, fig. 2 ("sharks").
 Haller, G. 1923 A, 95 ("selachier").
 1924 A, 305 ("selachier").
 1926 A, 449 ("selachier").
 Hase, A. 1913 A ("selachier").
 Hasse and Schwarck 1870 A, 36 ("selachier").
 Haswell, W. A. 1884 A.
 Huxley, T. H. 1863 F, 426 ("sharks, rays").
 1876 E, 103 ("plagiostomes").
 1881 A, 453 ("sharks").
 Imms, A. D. 1905 A, 43 (Selachoidei).
 Jaekel, O. 1901 A, 558 ("selachier").
 1911 A, 55.
 1926 A, 174 ("selachier").
 1926 B, 43 ("selachier").
 Jordan and Gilbert 1882 A, 12.
 Kehrer, F. A. 1896 A, 349 ("selachier").
 Kingsley, J. S. 1894 A, 638 ("sharks").
 Klaatsch, H. 1890 A, 98, 172, 214 ("selachier").
 1893 B, 654 ("selachier").
 1893 C, 175 ("selachier").
 Kryzanovsky, S. 1916 A, 235.
 Laaser, P. 1900 A, 479 ("selachier").
 1903 A, 551 ("selachier").
 Lakjer, T. 1927 A, 284 ("selachier").
 Lavocat, A. 1885 A, 32 ("plagiostomes").
 Lawley, R. 1875 B, 63 (Placoidei).
 Leunis and Ludwig 1883 A, 782 (Plagiostomata).
 Leydig, F. 1873 B, 31 ("selachier").
 Lönnberg, E. 1901 A.
 1902 A.
 Lubosch, W. 1909 A, 1 ("selachier").
 Luther, A. 1909 A ("selachier").
 Matthes, E. 1921 A, 212 ("selachier").
 Meek, A. 1916 A, 38 (Plagiostomi).
 Mollier, S. 1895 B, 10 ("selachier").
 Müller, E. 1909 A, 469 ("selachier").
 Müller and Henle 1838 A, 33 ("sharks").
 Mummery, J. H. 1917 A, 251 (Plagiostomi).
 Nauck, E. T. 1926 B, 73 ("selachier").
 Noordenbos, W. 1905 B, 389.
 Norman, E. W. 1926 A, 438, 458 (Euselachii).
 Parker, G. H. 1904 A, 496 ("fishes").
 Parker, W. K. 1881 C, 71 ("selachians").
 Parker and Haswell 1897 A, 156 (Euselachii).
 Pouchet and Chabry 1884 A, 186 ("sélaciens").
 Rabinerson, A. 1925 A, 434, 449 ("selachier").
 Radcliffe, L. 1917 A, 26 ("sharks").
 Reynolds, S. H. 1897 A, 31, 63, 108.
 Ridewood, W. G. 1921 A ("sharks and rays").
 Röse, C. 1892 G, 140 ("selachier").
 1897 A, 58 ("haifische").
 Sabatier, A. 1898 A, 928 ("sélaciens").
 1903 B, 1219 ("sélaciens").
 Schlosser, M. 1917 A, 142 ("selachier").
 Schmalhausen, J. J. 1916 C, 213.
 Schoenichen, W. 1900 A, 502 ("haie").
 Schuchert, C. 1914 B, 277 ("sharks").
 1915 A, 685.
 Secerov, S. 1911 A, 1.
 Sewertzoff, A. N. 1926 A, 535 ("selachians").
 Sewertzoff and Disler 1924 A, 345 ("selachier").
 Shann, E. W. 1919 A, 532.
 Stannius, H. 1854 A (Plagiostomi).
 Steinmann, G. 1907 A, 400.
 Stephan, P. 1900 A, 233 ("sélaciens").
 Stromer, E. 1905 H, 216 ("haie").
 Ussow, S. 1900 A, 233 ("selachier").
 Van Wijhe, J. W. 1922 A, 291 ("selachier").
 Veit, O. 1916 A, 375 ("selachier").
 Wagner, R. 1843 A, 204 (Plagiostomi).
 Weidenreich, F. 1926 A, 45, 53 ("selachier").
 Weiler, W. 1922 A, 103.
 Wells, G. A. 1917 A, 417.
 White, J. W. 1905 A, 319 ("selachier").
 Woodward, A. S. 1922 C, 67.
 1924 B, 338.
 Ziegler, H. E. 1923 A, 62 ("selachier").
 Zittel and Koken 1911 A, 48.
 Zittel and Schlosser 1923 A, 54.
 Zittel and Woodward 1902 A, 25 (Plagiostomi)

Suborder SQUALIFORMES Goodrich.

Goodrich, E. S. 1909 A, viii, 151.

Unless otherwise indicated the authors, as quoted, use for this suborder the name Squali.

Hay, O. P. 1902 A, 275.

Abel, O. 1919 A, 118 (Plagiostomi).

Agassiz, L. 1844 D, 142 ("squalides").

1844 E, 332 ("sharks").

1854 A, 4 ("sharks").

Allis, E. P. 1918 B, 263 (Selachii).

1925 A, 76 (Selachii).

Ameghino, F. 1906 A, 463 ("squares").

Backman, G. 1915 A.

Bessels, E. 1869 A, 153 ("haie").

Beyer, H. 1907 A, 266 ("selachier").

Boas, J. E. V. 1914 B, 538 ("haie").

Bonaparte, C. L. 1831 A, 121 (Squalidæ).

1833 B, 1203 (Squalidæ).

1838 C, 198, 206 (Squalidæ).

1839 A, 4, 8 (Squalidæ).

1840 A, 45 (Squalidæ).

Braus, H. 1904 A, 411 ("haie").

1906 B, 558 ("haie").

Bridge, T. W. 1904 A, 442 (Selachii).

Brohl, E. 1909 A, 348 ("haie").

Cunningham, J. T. 1912 A, 246 (Selachii).

Cuvier, G. 1803 A, 166 ("squares").

1805 A.

1815 A, 123 ("squares").

Dana, J. D. 1863 B, 317 ("sharks").

Davidoff, M. 1879 A ("haie").

Dean, B. 1900 A, 22 (Selachioidei).

Deinse, A. B. 1916 A, 417 ("selachier").

Dohrn, A. 1884 A ("haie").

Dollo, L. 1889 F, 334.

1904 C, 47 ("selaciens").

Duméril, A. 1856 A, 125.

Eimer, G. H. T. 1901 A, 61, 242 ("haie").

Fahrenheit, C. 1915 A, 394 ("haie").

Filatoff, D. 1907 A, 311 ("haie").

Fitzinger, L. J. 1873 A, 55 (Pleurochismata).

Forbes, H. O. 1879 A, 456 ("sharks").

Fürbringer, K. 1904 B, 464 ("squaliden").

Fürbringer, M. 1902 A ("haie").

1903 A, 361 (Selachii).

Garman, S. 1904 A, 246, 269 (Antacea).

1913 A, 10 (Antacea).

Gaupp, E. 1905 D, 834, 841 ("haie").

1910 C.

Gegenbaur, C. 1870 C, 405 ("haie").

1871 B ("haie").

Geoffrey, St. Hilaire 1807 C, 91 ("squares").

Gill, T. 1882 A, 967.

1885 A, lxiii.

Goetsch, W. 1920 A, 9 ("haie").

Greene, J. R. 1861 A, 227 (Squalidæ).

Haeckel, E. 1868 A, 443.

1873 A, 516, 585 (Squalacei).

Hatschek, B. 1893 A, 90 ("haie").

Huxley, T. H. 1869 G, 452.

Jaekel, O. 1913 A, 90 ("haie").

1913 C, 36 ("haie").

Jordan and Gilbert 1882 A, 12.

Kehrer, F. A. 1896 A, 347 ("haie").

Kingsley, J. S. 1885 A, 72.

Klaatsch, H. 1893 C, 181 (Squalidæ).

Küstlin, O. 1844 A ("haifische").

Latreille, P. A. 1825 A, 109 ("squalides").

Lavocat, A. 1885 A, 32 ("squares").

Leunis and Ludwig 1883 A, 782 (Selachioidei).

Lönnberg, E. 1902 A (Squalidæ).

Lubosch, W. 1909 A, 4 ("haie").

1911 B, 748 ("haie").

Lütken, C. 1868 C.

M'Donald, R. 1864 A, 166 ("sharks").

Meckel, J. F. 1825 A ("haifische").

Mivart, St. G. 1871 B, 380 ("sharks").

Müller, E. 1909 A, 473 (Acanthias).

Müller, J. 1841 B, cliii ("haie").

1845 A, 137 (Squalidæ).

Müller and Henle 1838 A, 34.

Norman, E. W. 1926 A, 452 (Pleurotremata).

Owen, R. 1839 G, 209 ("squares").

1846 E, 51 (Plagiostomi).

1848 B, 87 ("sharks").

1866 A, 13 (Selachii).

Parker and Haswell 1897 A, 156 (Squalida).

Pompeckj, J. F. 1913 A, 1124 (Selachioidei).

Priem, F. 1908 B ("squares").

Probst, J. 1886 B, 301 ("haie").

Rabl, C. 1901 A, 476 ("squaliden").

Rafinesque, C. S. 1815 A, 93 (Antacea).

Rauther, M. 1913 A, 1097 (Selachioidei).

Regan, C. T. 1906 A, 722 (Pleurotremata).

Ridewood, W. G. 1899 A, 46.

1921 A ("sharks").

Rosenberg, E. 1887 A, 31 ("selachier").

Ryder, J. 1886 A, 71.

Sabatier, A. 1898 A, 930 ("squares").

1903 B, 1219 ("squares").

Schauinsland, H. 1906 A, 393 ("squaliden").

Schlosser, M. 1898 D, 119 ("haie").

Schmalhausen, J. J. 1916 C, 207 ("sharks").

Seeley, H. G. 1872 B, 34 ("sharks").

Sewertzoff, A. N. 1896 A, 273 ("haie").

1897 A, 411, figs. 1-3 (Acanthias).

Shitkov, B. M. 1899 A, 256 ("haie").

Sloan, E. 1908 A, 335, 472 (Squalidæ).

Smith, H. M. 1916 A, 34 ("sharks").

Steinhard, O. 1903 A, 4 ("squaliden").

Steinmann, G. 1907 A, 400 (Squaloidei).

1908 A, 205 ("haie").

Steenstrup, J. 1861 A, 368 ("requins").

Stephan, P. 1900 A, 310 ("squares").

Stromer, E. 1905 C, 164 (Squaloidei).

1912 A, 19 (Squaloidei).

Terra, P. 1911 A, 199 (Squalides).

Veit, O. 1916 A, 369 ("haie").

1924 A, 379 ("haifische").

Wagner, R. 1843 A ("haifische").

Waldheim, F. 1835 A, 234 ("requins").

Weber, E. 1821 A, 1060.

Wells, G. A. 1917 A, 417 (Acanthias).

Wilbrand, J. B. 1824 A, 933 ("haie").

Williamson, W. C. 1851 A, 669 ("sharks").

Woodward, A. S. 1898 B, 40 (Selachioidei).

1921 B, 37 (Selachii).

1922 C, 68.

Superfamily PETALODONTOIDÆ new form.

- Hay, O. P. 1902 A, 275.
 Jordan, D. S. 1923 A, 92 (Janassides). | Woodward, A. S. 1921 B, 34 (Bradydonti).

PETALODONTIDÆ Newberry and Worthen.

- Hay, O. P. 1902 A, 275.
 Abel, O. 1919 A, 135.
 Arltdt, T. 1907 D, 672.
 1923 A, 487.
 Bridge, T. W. 1904 A, 446.
 Brongniart, C. 1888 C, 46 ("pétalodontidés").
 Cope, E. D. 1891 N, 16.
 Dean, B. 1906 B, 136 ("petalodontids").
 Dollo, L. 1889 F, 340.
 Eastman, C. R. 1903 B, 170.
 1917 A, 256.
 Fuchs, T. 1900 A, 7 ("petalodonten").
 Goodrich, E. S. 1909 A, 167.
 Gregory, W. K. 1907 D, 446.
 Hay, O. P. 1901 B, 66-69.
 Jaekel, O. 1901 A, 557 ("petalodonten").
- Jordan, D. S. 1905 A, i, 554; ii, 585.
 1907 B, 211, 759.
 1923 A, 93 (Janassidæ).
 Pompeckj, J. F. 1913 A, 1129.
 Sauvage, H. E. 1901 E, 70 ("petalodontides").
 Schlosser, M. 1917 A, 133, 134, 147 ("petalodontiden").
 Stromer, E. 1912 A, 22.
 Trouessart, E. L. 1906 A, 213 ("petalodontes").
 Woodward, A. S. 1919 B, 350 ("petalodonts").
 1922 C, 66.
 1924 A, 109.
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 67 (Petalodontidæ).
 Zittel and Woodward 1902 A, 37.

JANASSA Münster. Type *Trilobites bituminosus* Schlotheim = *J. angulata* Münster.

- Hay, O. P. 1902 A, 275.
 Abel, O. 1919 A, 137, fig. 101.
 Agassiz, L. 1844 C, 267.
 Barkas, W. J. 1874 D, 548.
 Bronn, H. G. 1848 A, 604 (Janassa).
 1849 A, 647 (Janassa).
 Case, E. C. 1908 C, 576 (Janassa, Strigilina).
 1915 A, 124.
 1926 B, 196.
 Dean, B. 1906 B, 136.
 Eastman, C. R. 1900 F, 581.
 1903 B, 170.
 1917 A, 256.
 Hay, O. P. 1901 B, 66, 69 (Janassa, Climaxodus).
 Hussakof, L. 1911 A, 156.
 Jaekel, O. 1909 D, 717 (Janassidæ).
 1911 A, 56, fig. 52.
 Jordan, D. S. 1905 A, i, 554.
 1907 B, 211.
 1919 B, 176.
 1923 A, 93.
 Pompeckj, J. F. 1913 A, 1129, fig. 33.
 Sauvage, H. E. 1901 E, 71.
 Schlosser, M. 1917 A, 134.
 Woodward, A. S. 1919 B, 380.
 1920 B, 1, 5.
 1921 B, 34, fig. 3.
 1922 C, 67, fig. 64.
 1924 A, 110.
 Zittel and Koken 1911 A, 62, fig. 109.
 Zittel and Schlosser 1923 A, 68, figs. 110, 111.
 Zittel and Woodward 1902 A, 38.
- Janassa angularis** Branson.
Branson, E. B. 1916 A, 647, pl. ii, figs. 5, 6.
 Pennsylvanian (Embar); Wyoming.
- Janassa brevis** (Newb.).
 Hay, O. P. 1902 A, 276.
 Pennsylvanian (Coal-measures); Ohio.
- Janassa gurleiana** Cope.
 Hay, O. P. 1902 A, 276.
 Case, E. C. 1900 A, 700; pl. i, fig. 2 (J. gurleyana).
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 12.
 Hussakof, L. 1911 A, 156; pl. xxvi, fig. 2 (J. gurleyana).
 Pennsylvanian (Coal-measures); Illinois.
- Janassa maxima** Eastman.
Eastman, C. R. 1903 B, 172; pl. ii, fig. 21;
 pl. iii, fig. 24; text-fig. 5.
 Pennsylvanian (Atehison); Nebraska.
- Janassa ordiana** Cope.
 Hay, O. P. 1902 A, 276.
 Beede, J. W. 1907 A, 120.
 Permian; Texas.
- Janassa strigilina** Cope.
 Hay, O. P. 1902 A, 276.
 Case, E. C. 1900 A, 699; pl. i, fig. 1.
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 11.
 Hussakof, L. 1911 A, 156; pl. xxvi, fig. 1.
 Pennsylvanian (Upper); Illinois.
- Janassa unguicula** Eastman.
Eastman, C. R. 1903 B, 173; pl. ii, fig. 13; text-fig. 6.
 Branson, E. B. 1916 A, 646; pl. ii, figs. 7-18.
 Woodruff, E. G. 1906 A, 290; pl. xviii, fig. 8.
 Pennsylvanian; Nebraska, Illinois, Wyoming.
- Janassa unguiformis** (Newb. and Worth.).
 Hay, O. P. 1902 A, 276 (Peltodus).
 Branson, E. B. 1916 A, 645; pl. ii, figs. 7, 7a.
 Pennsylvanian; Illinois, Wyoming.

CLIMAXODUS M'Coy. Type *C. imbricatus* M'Coy.

M'Coy, F. 1848 A, 128.
 Hay, O. P. 1902 A, 275 (Janassa, in part).
 Barkas, W. J. 1869 A, 42.
 Hay, O. P. 1901 B.
 Jordan, D. S. 1919 B, 239.
 1923 A, 93.
 Woodward, A. S. 1919 B, 379.
 1920 B, 1, 5.

Woodward, A. S. 1921 B, 34.
 1922 C, 67
 1924 A, 109.

Zittel and Schlosser 1923 A, 68.

This genus is recognized by A. S. Woodward (as cited) as being distinct from *Janassa*. Some of the American species referred to *Janassa* may belong to *Climaxodus*.

PELTODUS Newb. and Worth. Type *P. unguiformis* Newb. and Worth.

Hay, O. P. 1902 A, 276.
 Barkas, W. J. 1874 D, 547.
 Davis, J. W. 1884 A, 634.
 Eastman, C. R. 1903 B, 174.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 359 (Syn. of *Janassa*).
 1923 A, 93.
 Woodward, A. S. 1920 B, 4.

Peltodus? plicomphalus St. John and Worth.

Hay, O. P. 1902 A, 276.
 Mississippian (Chester); Illinois.

Peltodus pulvinulus Newb. and Worth.

Hay, O. P. 1902 A, 276.
 Mississippian; Illinois.

Peltodus quadratus St. John and Worth.

Hay, O. P. 1902 A, 276.
 Mississippian (St. Louis); Illinois, Missouri.

Peltodus transversus St. John and Worth.

Hay, O. P. 1902 A, 276.
 Pennsylvanian; Illinois.

TANAODUS St. John and Worth. Type *T. bellicinctus* St. John and Worth.

Hay, O. P. 1902 A, 276.
 Eastman, C. R. 1903 B, 174.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 380.
 1923 A, 93.
 Woodward, A. S. 1920 B, 4.

Tanaodus angularis (Newb. and Worth.).

Hay, O. P. 1902 A, 276.
 Meek, F. B. 1869 A, 3 (*Deltodus angulatus* This species?).
 Pennsylvanian; Illinois.

Tanaodus bellicinctus St. John and Worth.

Hay, O. P. 1902 A, 276.
 Mississippian (Chester); Illinois.

Tanaodus depressus St. John and Worth.

Hay, O. P. 1902 A, 276.
 Mississippian (Chester); Illinois.

Tanaodus gracillimus (Newb. and Worth.).

Hay, O. P. 1902 A, 276.
 Mississippian (Burlington); Iowa.

Tanaodus grossiplicatus St. John and Worth.

Hay, O. P. 1902 A, 276.
 Mississippian (Chester); Illinois.

Tanaodus multiplicatus (Newb. and Worth.).

Hay, O. P. 1902 A, 277.
 Brongniart, C. 1888 C, 47 (*Tanoodus*).
 Mississippian (Burlington); Iowa.

Tanaodus obscurus (Leidy).

Hay, O. P. 1902 A, 277.
 Mississippian (Keokuk); Illinois.

Tanaodus polymorphus St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (Chester); Illinois.

Tanaodus prænuntius St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (St. Louis); Illinois, Iowa, Missouri.

Tanaodus pumilis St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (St. Louis); Illinois, Iowa.

Tanaodus sculptus St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (St. Louis); Iowa, Illinois, Missouri.

Tanaodus sublunatus St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (St. Louis); Illinois.

CYMATODUS Newb. and Worth. Type *C. oblongus*, Newb. and Worth.

Hay, O. P. 1902 A, 277.
 Barkas, W. J. 1874 D, 546.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 359 (Syn.? of *Janassa*).
 1923 A, 93.

Cymatodus oblongus Newb. and Worth.

Hay, O. P. 1902 A, 277.
 Pennsylvanian; Illinois.

THORACODUS Cope. Type *T. emydinus* Cope.

Hay, O. P. 1902 A, 277.
 Hay, O. P. 1901 B, 66, 69.
 Jordan, D. S. 1923 A, 93.

Thoracodus emydinus Cope.

Hay, O. P. 1902 A, 277.
 Case, E. C. 1900 A, 702.
 Permian; Illinois.

FISSODUS St. John and Worth. Type *F. bifidus* St. John and Worth.

Hay, O. P. 1902 A, 277 (Fissodus, Cholodus).
 Branson, E. B. 1916 A, 647.
 Eastman, C. R. 1903 B, 174.
 Etheridge, R. 1877 A, 306; pl. xiii, figs. 2, 3.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 320.
 1923 A, 93.
 Zittel and Koken 1911 A, 62.
 Zittel and Schlosser 1923 A, 68.
 Zittel and Woodward 1902 A, 39.

Fissodus bifidus St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (Chester); Illinois.

Fissodus dentatus Eastman.

Eastman, C. R. 1903 B, 175; pl. ii, fig. 12.
 Pennsylvanian (Missourian); Kansas.

Fissodus inæqualis (St. John and Worth.).

Hay, O. P. 1902 A, 277 (Cholodus).
 Branson, E. B. 1916 A, 647.
 Eastman, C. R. 1903 B, 174; pl. ii, fig. 11; pl. iii, fig. 26.
 Woodruff, E. G. 1906 A, 290; pl. xviii, fig. 6.
 Pennsylvanian (Missourian); Nebraska, Kansas, Iowa, Illinois, Missouri, Wyoming.

Fissodus tricuspidatus St. John and Worth.

Hay, O. P. 1902 A, 277.
 Mississippian (Chester); Illinois.

PETALORHYNCHUS Agassiz. Type *Petalodus psittacinus* M'Coy.

Agassiz, L. 1862, in Morris and Roberts, Quart Jour. Geol., xviii, 101.
 Hay, O. P. 1902 A, 278.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 547.
 Eastman, C. R. 1903 B, 171.
 Etheridge, R. 1875 A, 242; pl. viii, figs. 3, 4.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 93.
 Woodward, A. S. 1924 A, 109.
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 68.
 Zittel and Woodward 1902 A, 38.

Petalorhynchus distortus St. John and Worth.

Hay, O. P. 1902 A, 278.
 Mississippian (St. Louis); Illinois, Missouri, Iowa.

Petalorhynchus pseudosagittatus St. John and Worth.

Hay, O. P. 1902 A, 278.
 Mississippian (St. Louis); Illinois, Missouri, Iowa.

Petalorhynchus spatulatus St. John and Worth.

Hay, O. P. 1902 A, 278.
 Mississippian (St. Louis); Illinois, Iowa.

Petalorhynchus striatus Newb. and Worth.

Hay, O. P. 1902 A, 278.
 Mississippian (Burlington); Illinois.

PETALODUS Owen. Type *P. hastingiæ* Agassiz.

Owen, R. 1845 B (1840), 61.
 Hay, O. P. 1902 A, 278.
 Agassiz, L. 1844 C, 267.
 1844 D, 142.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 547.
 Bronn, H. G. 1848 B, 949.
 1849 A, 646.
 Eastman, C. R. 1903 B, 171, 175.
 1917 A, 257.
 Etheridge, R. 1875 A, 244, pl. viii, figs. 5, 6.
 Hay, O. P. 1901 B, 66.
 Hayden, F. V. 1872 A, 132.
 Heilprin, A. 1887 A, 300.
 Jaekel, O. 1900 A, 146.
 Jordan, D. S. 1905 A, i, 554.
 1907 B, 211.

Jordan, D. S. 1919 B, 207.
 1923 A, 93 (Syn.? of Ctenopterygius).
 M'Coy, F. 1849 A, 141.
 Owen, R. 1845 B, 61, 62, pl. xxii, figs. 3-5.
 1849 D, 42.
 1866 A, 371.
 Sauvage, H. E. 1901 E, 71.
 Woodward, A. S. 1924 A, 109.
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 67.
 Zittel and Woodward 1902 A, 38.

Petalodus arcuatus St. John.

Hay, O. P. 1902 A, 280 (Chomatodus).
 Eastman, C. R. 1903 B, 177.
 Hayden, F. V. 1872 A, 127.

Meek, F. B. 1869 A, 3 (*Chomatodus*; name only).

1872 A, 100, 102, 127 (*Chomatodus*).

St. John and Worthen 1875 A, pl. x, figs. 23a-23d (*Chomatodus*).

Pennsylvanian; Iowa: (Missourian); Nebraska.

***Petalodus curtus* Newb. and Worth.**

Hay, O. P. 1902 A, 278.

Mississippian (Keokuk); Illinois, Iowa.

***Petalodus hybridus* St. John and Worth.**

Hay, O. P. 1902 A, 278.

Mississippian (St. Louis); Illinois.

***Petalodus knappi* Newb.**

Hay, O. P. 1902 A, 278.

Mississippian (Keokuk); Indiana.

***Petalodus linguifer* Newb. and Worth.**

Hay, O. P. 1902 A, 278.

Branson, E. B. 1906 A, 1379, pl. xli, figs. 13-15.

Mississippian (Chester); Illinois, Missouri: (Salem); Indiana.

***Petalodus ohioensis* Safford.**

Hay, O. P. 1902 A, 278.

Eastman, C. R. 1903 B, 176; pl. ii, figs. 17, 18; pl. iii, fig. 27 (*P. alleghaniensis*).

Hayden, F. V. 1872 A, 127 (*P. destructor*).

Hussakof and Bryant 1919 A, 149.

Mason, S. C. 1883 A, 13 (*P. alleghaniensis*).

Meek, F. B. 1869 A, 3 (*P. destructor*).

1872 A, 96, 127 (*P. destructor*).

Newberry, J. S. 1861 A, 38 (*P. alleghaniensis*).

1874 G, 156 (*P. alleghaniensis*).

Woodruff, E. G. 1906 A, 238, pl. xviii, fig. 4 (*P. alleghaniensis*).

Worthen, A. H. 1866 A, 61 (*P. destructor*).

Zittel and Koken 1911 A, 61, fig. 105 (*P. destructor*).

Zittel and Schlosser 1923 A, 67, fig. 109 (*P. destructor*).

Zittel and Woodward 1902 A, 38, fig. 75 (*P. alleghaniensis*).

Pennsylvanian; Ohio, Illinois, Iowa, Nebraska, Arkansas, Pennsylvania; Permian-Carboniferous; Nebraska.

***Petalodus proximus* St. John and Worth.**

Hay, O. P. 1902 A, 279.

Pennsylvanian; Illinois.

***Petalodus* sp. indet.**

Stevenson, J. J. 1907 A, 168.

Pennsylvanian (Ames); West Virginia.

ANTLIODUS Newb. and Worth. Type *A. mucronatus* Newb. and Worth.

Hay, O. P. 1902 A, 279.

Barkas, W. J. 1874 D, 544.

Hay, O. P. 1901 B, 66.

Hayden, F. V. 1872 A, 132.

Jordan, D. S. 1919 B, 342 (Syn. of *Petalodus*).

(Type said to be *A. parvulus*).

1923 A, 93.

***Antliodus arcuatus* Newb.**

Hay, O. P. 1902 A, 279.

Branson, E. B. 1906 A, 1394.

Hussakof, L. 1903 A, 28.

Mississippian (Salem); Indiana.

***Antliodus cucullus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Keokuk); Illinois.

***Antliodus gracilis* St. John and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Warsaw); Illinois.

***Antliodus minutus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Branson, E. B. 1906 A, 1394.

Brongniart, C. 1888 C, 47.

Mississippian (Salem); Indiana.

***Antliodus mucronatus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (St. Louis); Illinois.

***Antliodus parvulus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Burlington); Illinois.

***Antliodus perovalis* St. John and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Warsaw); Illinois.

***Antliodus politus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Keokuk); Illinois.

***Antliodus robustus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Chester); Illinois.

***Antliodus sarcululus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Newberry and Worthen 1870 A, pl. ii, figs. 8-8b.

Mississippian (Burlington); Iowa.

***Antliodus similis* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Keokuk); Illinois, Indiana.

***Antliodus simplex* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Burlington); Iowa.

***Antliodus sulcatus* Newb. and Worth.**

Hay, O. P. 1902 A, 279.

Mississippian (Keokuk); Illinois.

CHOMATODUS Agassiz. Type *C. cinctus* Agassiz.

Hay, O. P. 1902 A, 279.

Agassiz, L. 1844 C, 267.

Barkas, W. J. 1874 D, 545.

Brongniart, C. 1888 C, 46 (*Chomatodus*).

Coulon, L. 1903 A, 130.

Eastman, C. R. 1903 B, 203.

Eastman, C. R. 1909 A, 488.
1917 A, 257.

Giebel, C. G. 1855 A, 115.

Hay, O. P. 1901 B, 66.

Hayden, F. V. 1872 A, 132.

Heilprin, A. 1887 A, 300.

Jordan, D. S. 1919 B, 190.
1923 A, 94.

Savage, T. E. 1902 A, 257.

Woodward, A. S. 1920 B, 4.

Chomatodus affinis Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Illinois.

Chomatodus angustus Newb.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394.

Mississippian (Salem); Indiana.

Chomatodus comptus St. John and Worth.

Hay, O. P. 1902 A, 280.

Eastman, C. R. 1903 B, 203.

Mississippian (Burlington); Iowa.

Chomatodus costatus Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Illinois.

Chomatodus cultellus Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Chester); Illinois.

Chomatodus elegans Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Iowa.

Chomatodus inconstans St. John and Worth.

Hay, O. P. 1902 A, 280 (C. chesterensis, C. inconstans, C. varsouviensis).

Branson, E. B. 1906 A, 1380, pl. xli, figs. 29-31.

Eastman, C. R. 1903 B, 204, pl. iv, figs. 32-34 (C. chesterensis, C. varsouviensis are syns.).

Mississippian (St. Louis, Keokuk, Chester); Iowa, Illinois: (Salem); Indiana, Missouri.

LISGODUS St. John and Worth. Type *L. curtus* St. John and Worth.

Hay, O. P. 1902 A, 281.

1901 B, 66.

Jordan, D. S. 1919 B, 380 (Syn.? of *Petalodus*).
1923 A, 93.

Lisgodus affinis Newb.

Hay, O. P. 1902 A, 281.

Branson, E. B. 1906 A, 1394.

Mississippian (St. Louis); Illinois, Missouri: (Salem); Indiana.

Lisgodus curtus St. John and Worth.

Hay, O. P. 1902 A, 281.

Mississippian (Burlington); Iowa, Illinois: (Keokuk); Illinois, Missouri.

CALOPODUS St. John and Worth. Type *C. apicalis* St. John and Worth.

Hay, O. P. 1902 A, 281.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1923 A, 93.

Chomatodus incrassatus St. John and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (St. Louis); Illinois, Iowa, Missouri.

Chomatodus insignis (Leidy).

Hay, O. P. 1902 A, 280.

Mississippian (St. Louis); Missouri, Illinois.

Chomatodus lanesvillensis Branson.

Branson, E. B. 1906 A, 1381, pl. xlii, figs. 15-18.

Mississippian (Salem); Indiana.

Chomatodus loriformis Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Illinois.

Chomatodus molaris Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Illinois.

Chomatodus newberryi Hay.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394 (C. obliquus).

Mississippian (Salem); Indiana.

Chomatodus parallelus St. John and Worth.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1379.

Mississippian (Warsaw); Illinois, Missouri: (Salem); Indiana.

Chomatodus pusillus Newb. and Worth.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394.

Mississippian (Keokuk); Illinois: (Salem); Indiana.

Chomatodus selliformis Newb.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394.

Mississippian (St. Louis); Illinois: (Salem); Indiana.

Lisgodus selluliformis St. John and Worth.

Hay, O. P. 1902 A, 281.

Mississippian (St. Louis); Illinois, Missouri.

Lisgodus serratus St. John and Worth.

Hay, O. P. 1902 A, 281.

Mississippian (Burlington); Iowa, Illinois.

Calopodus apicalis St. John and Worth.

Hay, O. P. 1902 A, 281.

Pennsylvanian; Iowa.

CTENOPTYCHIUS Agassiz. Type *C. apicalis* Agassiz.

- Hay, O. P. 1902 A, 281 (Ctenoptychius, Ctenopetalus); 282 (Harpacodus).
 Agassiz, L. 1844 C, 267, 268.
 1862, in Morris and Roberts, Quart. Jour. Geol., xviii, 100 (Ctenopetalus).
 Arltdt, T. 1923 A, 487 (Ctenoptychius, Ctenopetalus, Harpacodus).
 Barkas, T. P. 1869 B, 43, figs. 1, 2.
 1874 D, 545 (Ctenoptychius, Ctenopetalus); 546 (Harpacodus).
 Bronn, H. G. 1848 A, 356.
 1849 A, 646.
 Eastman, C. R. 1903 B, 171, 176.
 1917 A, 257.
 Etheridge, R. 1875 A, 244.
 Giebel, C. G. 1855 A, 115, pl. xlviii.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1907 B, 212.
 1919 B, 320 (Ctenopetalus; syn. of Ctenoptychius).
 1923 A, 93.
 Woodward, A. S. 1924 A, 109.
 Zittel and Koken 1911 A, 63.
 Zittel and Schlosser 1923 A, 69.
 Zittel and Woodward 1902 A, 39.

Ctenoptychius acuminatus (St. John and Worth.).

- Hay, O. P. 1902 A, 282.
 Mississippian (Kinderhook); Iowa.

Ctenoptychius bellulus (St. John and Worth.).

- Hay, O. P. 1902 A, 281 (Ctenopetalus).
 Mississippian (St. Louis); Iowa, Illinois.

Ctenoptychius compactus (St. John and Worth.).

- Hay, O. P. 1902 A, 282 (Harpacodus compactus, H. occidentalis).
 Eastman, C. R. 1903 B, 178 (H. occidentalis a syn.).
 Mississippian (Chester); Illinois.

Ctenoptychius cristatus Dawson.

- Hay, O. P. 1902 A, 282.
 Bell, W. A. 1913 A, 340, 343.
 Lambe, L. M. 1904 C, 19, 35, 41.
 Whitcaves, J. F. 1903 B, 29 (This species?).
 Carboniferous; Nova Scotia.

Ctenoptychius limatulus (St. John and Worth.).

- Hay, O. P. 1902 A, 281 (Ctenopetalus).
 Mississippian (Chester); Illinois.

Ctenoptychius medius (St. John and Worth.).

- Hay, O. P. 1902 A, 281 (Ctenopetalus).
 Mississippian (Chester); Illinois.

Ctenoptychius occidentalis (St. John and Worth.).

- Hay, O. P. 1902 A, 281 (Ctenopetalus).
 Eastman, C. R. 1903 B, 178, pl. ii, fig. 10.
 Pennsylvanian; Iowa: (Missourian); Nebraska.

Ctenoptychius pertenuis St. John and Worth.

- Hay, O. P. 1902 A, 282.
 Mississippian (Chester); Illinois.

Ctenoptychius stevensoni St. John and Worth.

- Hay, O. P. 1902 A, 282.
 Newberry, J. S. 1874 G, 156 (Peripristis n. sp.).
 Pennsylvanian; West Virginia.

Ctenoptychius vinosus (St. John and Worth.).

- Hay, O. P. 1902 A, 281 (Ctenopetalus).
 Mississippian (Keokuk); Iowa.

POLYRHIZODUS M'Coy. Type *P. magnus* M'Coy.

- Hay, O. P. 1902 A, 282.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 546, 548 (Dactylodus, Polyrhizodus).
 Cushing, H. P. 1912 A, 581.
 Eastman, C. R. 1917 A, 257.
 Goodrich, E. S. 1909 A, 167, fig. 133.
 Hay, O. P. 1901 B, 66.
 Hoernes, R. 1886 A, 543.
 Jaekel, O. 1911 A, 57, fig. 53.
 Jordan, D. S. 1907 B, 212.
 1919 B, 239.
 1923 A, 93.
 Pompeckj, J. F. 1913 A, 1129.
 Sauvage, H. E. 1901 E, 71.
 Zittel and Koken 1911 A, 62.
 Zittel and Schlosser 1923 A, 68.
 Zittel and Woodward 1902 A, 39.

Polyrhizodus amplus St. John and Worth.

- Hay, O. P. 1902 A, 282.
 Mississippian (St. Louis); Illinois, Missouri.

Polyrhizodus carbonarius St. John and Worth.

- Hay, O. P. 1902 A, 282.
 Pennsylvanian; Illinois.

Polyrhizodus concavus (St. John and Worth.).

- Hay, O. P. 1902 A, 282.
 Eastman, C. R. 1917 A, 257, pl. viii, fig. 4.
 Mississippian (St. Louis); Illinois.

- Polyrhizodus dentatus** Newb. and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Chester); Illinois.
- Polyrhizodus digitatus** (Leidy).
Hay, O. P. 1902 A, 283.
Mississippian (St. Louis); Missouri, Illinois.
- Polyrhizodus excavatus** (St. John and Worth.).
St. John and Worthen 1875 A, 392, pl. xiii, fig. 16 (Dactylodus).
Mississippian (Chester); Illinois.
- Polyrhizodus grandis** Eastman.
Eastman, C. R. 1917 A, 257, pl. viii, figs. 1, 2.
Mississippian (St. Louis); Illinois.
- Polyrhizodus inflexus** (Newb. and Worth.).
Hay, O. P. 1902 A, 283.
Mississippian (Chester); Illinois.
- Polyrhizodus latus** (Newb.).
Hay, O. P. 1902 A, 283.
Mississippian (St. Louis); Illinois.
- Polyrhizodus littoni** Newb. and Worth.
Hay, O. P. 1902 A, 283.
Branson, E. B. 1906 A, 1394.
Hussakof, L. 1908 A, 34.
Mississippian (St. Louis); Missouri, Indiana.
- Polyrhizodus minimus** (St. John and Worth.).
Hay, O. P. 1902 A, 283.
Mississippian (St. Louis); Illinois.
- Polyrhizodus modestus** Newb.
Hay, O. P. 1902 A, 283.
Claypole, E. W. 1903 A, 319, 321.
Eastman, C. R. 1907 B, 18.
Newberry, J. S. 1874 G, 94, 98.
Upper Devonian or Lower Mississippian; Ohio.
- Polyrhizodus nanus** St. John and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Keokuk); Iowa.
- Polyrhizodus piasaënsis** St. John and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Warsaw); Illinois.
- Polyrhizodus ponticulus** Newb. and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Chester); Illinois.
- Polyrhizodus porosus** Newb. and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Burlington); Iowa, Illinois.
- Polyrhizodus princeps** (Newb. and Worth.).
Hay, O. P. 1902 A, 283.
Eastman, C. R. 1917 A, 257.
Hussakof, L. 1908 A, 34.
Mississippian (St. Louis); Missouri, Illinois.
- Polyrhizodus rectus** (Newb.).
Hay, O. P. 1902 A, 283.
Hussakof, L. 1908 A, 34.
Mississippian (St. Louis); Illinois.
- Polyrhizodus truncatus** Newb. and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Burlington); Illinois.
- Polyrhizodus williamsi** St. John and Worth.
Hay, O. P. 1902 A, 283.
Mississippian (Keokuk); Missouri, Iowa.

PERIPRISTIDÆ Eastman.

Eastman, C. R. 1902 A, 389.
Jordan, D. S. 1923 A, 94.

Zittel and Koken 1911 A, 63.

PERIPRISTIS St. John. Type *Ctenoptychius semicircularis* Newb. and Worth.

- Hay, O. P. 1902 A, 281 (*Ctenoptychius*, in part).
Barkas, W. J. 1874 D, 547.
Eastman, C. R. 1902 A, 388, 389.
1903 B, 176, 178.
Jordan, D. S. 1919 B, 359 (Syn. of *Ctenoptychius*).
1923 A, 94 (Not syn. of *Ctenoptychius*).
Zittel and Woodward 1902 A, 39.
- Peripristis semicircularis** (Newb. and Worth.).
Hay, O. P. 1902 A, 282 (*Ctenoptychius*).
Eastman, C. R. 1902 A, 289, fig. 1.
- Eastman, C. R. 1903 B, 178, pl. ii, figs. 5-7; pl. iii, fig. 25, text-figs. 7, 8.
Etheridge, R. 1875 A, 244 (*Ctenoptychius*).
Hayden, F. V. 1872 A, 127.
Martin, H. T. 1913 A, 185 (*Ctenoptychius*).
Meek, F. B. 1869 A, 3.
1872 A, 86, 89, 96, 100, 102, 127.
Merrill, G. P. 1907 A, 15.
Smith, G. L. 1915 A, 282.
Stevenson, J. J. 1878 A, 240 (*Ctenoptychius*).
Woodruff, E. G. 1906 A, 290, pl. lxviii, fig. 7.
Missourian (Atchison); Nebraska: Pennsylvanian; Ohio, Indiana: Mississippian (Chester); Kentucky: Permian; Kansas; Iowa.

PSAMMODONTIDÆ Koninek

- Hay, O. P. 1902 A, 284.
 Abel, O. 1919 A, 135.
 Arltdt, T. 1907 D, 677.
 Bridge, T. W. 1904 A, 446.
 Cope, E. D. 1891 N, 17.
 Dollo, L. 1889 F, 341.
 Goodrich, E. S. 1909 A, 167.
 Gregory, W. K. 1907 D, 446.
 Hay, O. P. 1901 B, 66.
 Hoernes, R. 1886 A, 543 (Psammodontes).
 Jordan, D. S. 1905 A, i, 558.
- Jordan, D. S. 1907 B, 215, 758, 759.
 ' 1923 A, 93.
 Pompeckj, J. F. 1913 A, 1128.
 Schlosser, M. 1917 A, 133 ("psammodontiden").
 Trouessart, E. L. 1906 A, 213 ("psammodontes").
 Woodward, A. S. 1919 B, 380.
 ' 1921 B, 34.
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 66.
 Zittel and Woodward 1902 A, 37.

PSAMMODUS Agassiz. Type *P. rugosus* Agassiz.

- Hay, O. P. 1902 A, 284.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 548.
 Böklen, H. 1887 A, 76.
 Briquel, P. 1898 A, 16.
 Bronn, H. G. 1848 B, 1048.
 ' 1849 A, 647.
 Dean, B. 1909 C, 249.
 Eastman, C. R. 1903 B, 170.
 ' 1917 A, 258.
 Egerton, P. G. 1853 C, 282.
 Etheridge, R. 1877 A, 308, pl. xiii, figs. 7-9.
 Giebel, C. G. 1855 A, 115.
 Hay, O. P. 1901 B, 66.
 Heilprin, A. 1887 A, 300.
 Hoernes, R. 1886 A, 543.
 Jaekel, O. 1911 A, 54, fig. 44.
 Jordan, D. S. 1905 A, i, 558; ii, 588.
 ' 1907 B, 215, 216.
 ' 1923 A, 93.
 Mantell, G. A. 1844 A, 617.
 Stephan, P. 1900 A, 409.
 Woodward, A. S. 1921 B, 34.
 ' 1924 A, 110.
 Zittel and Koken 1911 A, 61.
 Zittel and Woodward 1902 A, 37.
- Psammodus angularis** Newb. and Worth.
 Hay, O. P. 1902 A, 284.
 Brongniart, C. 1888 C, 47 (*P. porosus*).
 Hussakof and Bryant 1919 A, 149.
 ' Mississippian (Chester); Illinois.
- Psammodus antiquus** Newb.
 Hay, O. P. 1902 A, 284.
 Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1908 A, 276 (This genus?).
 ' 1907 B, 13 (This genus?).
 Stauffer, C. R. 1909 A, 170.
 ' Middle Devonian (Columbus); Ohio.
- Psammodus cælatus** St. John and Worth.
 Hay, O. P. 1902 A, 284.
 ' Mississippian (St. Louis); Iowa, Missouri.
- Psammodus crassidens** St. John and Worth.
 Hay, O. P. 1902 A, 284.
 ' Mississippian (St. Louis); Illinois, Iowa.
- Psammodus glyptus** St. John and Worth.
 Hay, O. P. 1902 A, 284.
- Branson, E. B. 1906 A, 1394.
 Eastman, C. R. 1917 A, 258.
 Hussakof, L. 1908 A, 34 (This species?).
 Van Tuyl, F. M. 1925 A, 141.
 ' Mississippian (Burlington); Illinois: (St. Louis); Indiana.
- Psammodus grandis** St. John and Worth.
 Hay, O. P. 1902 A, 284.
 ' Mississippian (Keokuk); Iowa.
- Psammodus lovianus** St. John and Worth.
 Hay, O. P. 1902 A, 284.
 ' Mississippian (Burlington); Iowa, Illinois.
- Psammodus plenus** St. John and Worth.
 Hay, O. P. 1902 A, 284.
 Eastman, C. R. 1917 A, 258, pl. vii, fig. 8.
 Newberry, J. S. 1889 A, 210, pl. xix, figs. 7, 8 (*P. glyptus errore*).
 ' Mississippian (St. Louis); Missouri, Illinois, Michigan.
- Psammodus reticulatus** Newb. and Worth.
 Hay, O. P. 1902 A, 284.
 ' Mississippian (Chester); Illinois.
- Psammodus springeri** St. John and Worth.
 Hay, O. P. 1902 A, 285.
 Eastman, C. R. 1917 A, 258.
 ' Mississippian (Burlington); Iowa, Illinois.
- Psammodus tumidus** St. John and Worth.
 Hay, O. P. 1902 A, 285.
 ' Mississippian (Burlington); Iowa, Illinois.
- Psammodus turgidus** St. John and Worth.
 Hay, O. P. 1902 A, 285.
 ' Mississippian (Burlington-Keokuk division beds); Iowa.
- Psammodus sp. indet.**
 Hay, O. P. 1902 A, 285.
 Bell, W. A. 1913 A, 343 (*Rhizodus*).
 ' Pennsylvanian (Joggins); Nova Scotia.
 Lambe, L. M. 1904 C, 41.
 ' Pennsylvanian (Joggins); Nova Scotia.

MAZODUS Newb. Type *M. kepleri* Newb.

- Hay, O. P. 1902 A, 285.
 Eastman, C. R. 1903 B, 219.
 Moodie, R. L. 1920 C, 48, pl. i, fig. C.
 1926 A, 67.
 Rogers, A. F. 1924 A, 554, pl. xxvii, fig. 2.

Mazodus kepleri Newb.

- Hay, O. P. 1902 A, 285.
 Hussakof, L. 1908 A, 31.
 Moodie, R. L. 1926 A, 79, 81, 93, pl. ix.
 Mississippian (Waverly); Ohio.

ARCHÆOBATIS Newb. Type *A. gigas* Newb.

- Hay, O. P. 1902 A, 285.
 Dean, B. 1909 C, 258, pl. xxxv.
 Eastman, C. R. 1903 B, 170.
 Hay, O. P. 1901 B, 66.
 Zittel and Koken 1911 A, 61.
 Zittel and Woodward 1902 A, 37.

Archæobatis gigas Newb.

- Hay, O. P. 1902 A, 285.
 Branson, E. B. 1906 A, 1394.
 Dean, B. 1909 C, 258.
 Eastman, C. R. 1917 A, 258 (To *Psammodus*?).
 Hussakof, L. 1908 A, 29.
 Jordan, D. S. 1905 A, i, 559.
 1907 B, 216.
 Pompeckj, J. F. 1913 A, 1128.
 Mississippian (St. Louis); Indiana.

COPODONTIDÆ Woodward.

- Woodward, A. S. 1921 B, 35.

COPODUS Agassiz. Type *Psammodus cornutus* Agassiz.

- Agassiz, L. 1862, in Morris and Roberts.
 Quart. Jour. Geol. Soc., xviii, 100.
 Hay, O. P. 1902 A, 285.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 545.
 Eastman, C. R. 1903 B, 170.
 Jordan, D. S. 1907 B, 216.
 1919 B, 320.
 1923 A, 93.
 Woodward, A. S. 1921 B, 34.
 1924 A, 110.
 Zittel and Woodward 1902 A, 37.

Copodus marginatus (Newb.).

- Hay, O. P. 1902 A, 285.
 Branson, E. B. 1906 A, 1394.
 Hussakof, L. 1908 A, 29.
 Mississippian (St. Louis); Indiana.

Copodus pusillus St. John and Worth.

- Hay, O. P. 1902 A, 285.
 Mississippian (Chester); Illinois.

Copodus vanhornii St. John and Worth.

- Hay, O. P. 1902 A, 285.
 Mississippian (St. Louis); Missouri, Illinois.

ACMONIODUS Hussakof and Bryant. Type *A. clarkei* Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 151.
 Woodward, A. S. 1921 B, 36.

Acmoniodus clarkei Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 13, 151, 308, pl. lv, fig. 3; text-fig. 53.
 Upper Devonian (Lower Genesee); New York.

Superfamily HYBODONTOIDÆ, new form.

- Hay, O. P. 1902 A, 285 (Heterodontoidea).
 Agassiz, L. 1844 D, 142 ("cestracionts").
 Bronn, H. G. 1849 A, 830, seq. (Cestraciontes).
 Cope, E. D. 1891 N, 17 (Cestraciontidæ).
 Duméril, A. 1856 A, 132 ("cestraciontes").
 Eastman, C. R. 1902 F, 267 ("cestracionts").
 Fitzinger, L. J. 1873 A, 55 (Cestraciontes).
 Gill, T. 1882 A, 967 (Proarthri or Aerodonta).
 1885 A, lxiv (Proarthri).
 Goodrich, E. S. 1909 A, 145 (Heterodonti).
 Gregory, W. K. 1907 A, 446 (Proarthri).
 Jaekel, O. 1911 A, 57 (Cestracionti).
 Jordan, D. S. 1905 A, i, 526; ii, 562 (Cestraciontes).
 1907 B, 187, 758 (Cestraciontes).
 Krivetski, A. 1917 A, 19 (Cestracion).
 Pompeckj, J. F. 1913 A, 1124 (Heterodonti).
 Regan, C. T. 1906 A, 723, 746 (Squaloidei).
 Ridewood, W. G. 1921 A, 313 (Squaloidei).

COCHLIODONTIDÆ Owen.

- Hay, O. P. 1902 A, 286.
 Abcl, O. 1919 A, 133.
 Arltdt, T. 1907 D, 646.
 1923 A, 487 ("cochliodontiden").
 Bridge, T. W. 1904 A, 445, 736.
 Cope, E. D. 1891 N, 17.

- Dean, B. 1906 B, 136 ("cochliodonts").
 Dollo, L. 1889 F, 341.
 1906 B, 135 ("cochliodontes").
 1907 B, 101 ("cochliodontes").
 Eastman, C. R. 1903 D, 285 ("cochliodonts").
 Goodrich, E. S. 1909 A, 146.

- Gregory, W. K. 1907 D, 446.
 Hay, O. P. 1901 B, 66, 70.
 Jaekel, O. 1892 B, 153 ("cochliodontiden").
 1923 A, 43 ("cochliodonten").
 Jordan, D. S. 1905 A, i, 531; ii, 564.
 1907 B, 758.
 1923 A, 94.
 Koken, E. 1904 A, 305 ("cochliodontiden").
 Krause, P. G. 1901 A, 120 ("cochliodonten").
 Pompeckj, J. F. 1913 A, 1123.
 Regan, C. T. 1906 A, 723, 747, 749.
 Schlosser, M. 1917 A, 133, 146 ("cochliodontiden").
 Stromer, E. 1912 A, 22.
 Woodward, A. S. 1904 C, 138.
 1911 C, 46 ("cochliodonts").
 1919 B, 380.
 1921 B, 26.
 1924 A, 109, 110.
 Zittel and Koken 1911 A, 59.
 Zittel and Schlosser 1923 A, 64.
 Zittel and Woodward 1902 A, 35.

HELODUS Agassiz. Type *H. simplex* Agassiz.

- Hay, O. P. 1902 A, 286.
 Agassiz, L. 1844 C, 267.
 Barkas, W. J. 1874 D, 546.
 Bronn, H. G. 1848 A, 583.
 Coulon, L. 1903 A, 114.
 Eastman, C. R. 1900 F, 581.
 1903 B, 203.
 1917 A, 259.
 Giebel, C. G. 1855 A, 115.
 Hay, O. P. 1901 B, 66.
 Heilprin, A. 1887 A, 300.
 Hoernes, R. 1886 A, 543.
 Jordan, D. S. 1923 A, 94.
 Owen, R. 1845 B, 61.
 Savage, T. E. 1902 A, 257.
 Stevenson, J. J. 1907 A, 168.
 Woodward, A. S. 1921 B, 36.
 1924 A, 109.
 1924 B, 341.
- Helodus angulatus** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Burlington); Illinois.
- Helodus biformis** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Worthen, A. H. 1866 A, 115.
 Mississippian (Kinderhook); Iowa.
- Helodus carbonarius** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Pennsylvanian (Coal-measures); Illinois.
- Helodus clivulus** Branson.
 Branson, E. B. 1914 A, 67, pl. iv, figs. 1, 2, 5, 6.
 Upper Devonian (Craghead); Missouri.
- Helodus comptus** Eastman.
 Eastman, C. R. 1909 A, 483.
 1908 A, 112 (name only).
 Pennsylvanian (Waverly); Pennsylvania.
- Helodus coniculus** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Branson, E. B. 1906 A, 1382, pl. xli, figs. 5-7.
 Eastman, C. R. 1903 B, 204.
 Newberry, J. S. 1874 G, 90, 98.
 Mississippian (Salem); Indiana: (Berea);
 Pennsylvania: (Burlington); Iowa: (Keokuk);
 Illinois.
- Helodus consolidatus** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Missouri, Illinois.
- Helodus crenulatus** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
- Helodus dens-humani** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
- Helodus denticulatus** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
- Helodus devonicus** Branson.
 Branson, E. B. 1914 A, 66, pl. iv, figs. 19, 20.
 Upper Devonian (Craghead); Missouri.
- Helodus elegantulus** Branson.
 Branson, E. B. 1906 A, 1333, pl. xlii, figs. 27-29.
 Mississippian (Salem); Indiana.
- Helodus elytra** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
- Helodus gibberulus** Agassiz.
 Hay, O. P. 1902 A, 286.
 Eastman, C. R. 1902 B, 71.
 1907 B, 20.
 1908 A, 112, 287.
 1909 A, 489.
 Lambe, L. M. 1913 D, 19.
 Upper Devonian (Chemung); Pennsylvania.
- Helodus gibbus** Leidy.
 Hay, O. P. 1902 A, 286.
 Mississippian (Warsaw); Illinois.
- Helodus incipiens** Branson.
 Branson, E. B. 1914 A, 67, pl. iv, figs. 11-16.
 Upper Devonian (Craghead); Missouri.
- Helodus incisus** Eastman.
 Eastman, C. R. 1903 B, 204, pl. v, fig. 54.
 Branson, E. B. 1906 A, 1382, pl. xli, figs. 10-12.
 Mississippian (Salem); Indiana.
- Helodus lævis** Newb.
 Hay, O. P. 1902 A, 286.
 Branson, E. B. 1906 A, 1381, pl. xli, figs. 16-22.
 Mississippian (Salem); Indiana.
- Helodus limax** Newb. and Worth.
 Hay, O. P. 1902 A, 287.
 Mississippian (Burlington); Iowa.

Helodus minutus Branson.

Branson, E. B. 1906 A, 1384, pl. xlii, figs. 32-34
(This genus?).
Mississippian (Salem); Indiana.

Helodus ornatus Branson.

Branson, E. B. 1906 A, 1383, pl. xlii, figs. 38-40.
Mississippian (Salem); Indiana.

Helodus politus Newb. and Worth.

Hay, O. P. 1902 A, 287.
Branson, E. B. 1916 A, 643.
Mississippian (Keokuk); Illinois.

Helodus robustus Branson.

Branson, E. B. 1906 A, 1382, pl. xlii, figs. 22-24.
Mississippian (Salem); Indiana.

Helodus rowleyi Branson.

Branson, E. B. 1914 A, 67, pl. iv, figs. 11-16.
Upper Devonian (Craghead); Missouri.

Helodus rugosus Newb. and Worth.

Hay, O. P. 1902 A, 287.
Branson, E. B. 1916 A, 643, pl. ii, fig. 10.
Eastman, C. R. 1903 B, 182, pl. ii, fig. 14.
Hussakof and Bryant 1919 A, 149.
Pennsylvanian (Atchison); Nebraska: (Embar); Wyoming; Pennsylvania.

Helodus subpolitus Branson.

Branson, E. B. 1916 A, 642, pl. i, figs. 6-16.
Pennsylvanian (Embar); Wyoming.

Helodus subtuberatus Lambe.

Lambe, L. M. 1912 B, 347.
Lambe, L. M. 1913 D, 20, pl. ii.
Upper Devonian; Alberta.

Helodus sulcatus Newb. and Worth.

Hay, O. P. 1902 A, 287.
Mississippian (Keokuk); Illinois.

Helodus undulatus Newb. and Worth.

Hay, O. P. 1902 A, 287.
Mississippian (Keokuk); Illinois.

Helodus wortheni Hay.

Hay, O. P. 1902 A, 287.
Mississippian (Burlington); Illinois.

Helodus sp. indet.

Branson, E. B. 1906 A, 1383.
Mississippian (Salem); Indiana.
Van Tuyl, F. M. 1925 A, 141.
Mississippian (Burlington); Iowa.

CRASSIDONTA BRANSON. Type *C. stuckenbergi* Branson.

Branson, E. B. 1916 A, 643.

Crassidonta stuckenbergi Branson.

Branson, E. B. 1916 A, 643, pl. 1, figs. 17-27.
Pennsylvanian (Embar); Wyoming.

VENUSTODUS St. John and Worth. Type *Chomatodus venustus* Leidy.

Hay, O. P. 1902 A, 287.
Eastman, C. R. 1903 B, 203.
Hay, O. P. 1901 B, 66.
Jordan, D. S. 1923 A, 94.

Venustodus argutus St. John and Worth.

Hay, O. P. 1902 A, 287.
Mississippian (Chester); Illinois.

Venustodus robustus St. John and Worth.

Hay, O. P. 1902 A, 287.
Mississippian (Burlington); Iowa.

Venustodus tenuicristatus St. John and Worth.

Hay, O. P. 1902 A, 287.
Mississippian (Keokuk); Illinois, Iowa, Missouri.

Venustodus variabilis St. John and Worth.

Hay, O. P. 1902 A, 287.
Mississippian (Burlington); Illinois, Iowa.

Venustodus venustus (Leidy).

Hay, O. P. 1902 A, 287.
Mississippian (St. Louis); Illinois, Missouri.

XENODUS S. A. Miller. Type *Goniodus hertzeri* Newb.

Hay, O. P. 1902 A, 287.
Jordan, D. S. 1923 A, 94

Xenodus hertzeri (Newb.).

Hay, O. P. 1902 A, 287.

Claypole, E. W. 1896 B, 353 (Goniodus).
1903 A, 319, 346 (Goniodus).
Eastman, C. R. 1907 B, 18 (X. herzeri).
1903 A, 283 (X. herzeri).
Hussakof, L. 1903 A, 37.
Upper Devonian (Huron); Ohio.

PERIPLECTRODUS St. John and Worth. Type *P. warreni* St. John and Worth.

Hay, O. P. 1902 A, 287.
Davis, J. W. 1884 A, 632.
Eastman, C. R. 1902 B, 57.
1902 H, 150.

Eastman, C. R. 1903 D, 285.
Hay, O. P. 1901 B, 67.
Jordan, D. S. 1923 A, 94.

Periplectrodus compressus St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (St. Louis); Illinois.

Periplectrodus expansus St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Chester); Illinois.

Periplectrodus warreni St. John and Worth.

Hay, O. P. 1902 A, 287.

Fuehs, T. 1900 A, 8, fig. 3.

Mississippian (Burlington); Illinois.

PSEPHODUS Agassiz. Type *Cochliodus magnus* Portlock.

Agassiz, L. 1862, in Morris and Roberts, Quart. Jour. Geol., xviii, 101.

Hay, O. P. 1902 A, 288.

Abel, O. 1912 F, 488.

1919 A, 136.

Arlt, T. 1923 A, 487 (*Psephodus*, *Tæniodus*).

Barkas, W. J. 1874 D, 548.

Branson, E. B. 1905 A, 20.

Coulon, L. 1903 A, 114.

Eastman, C. R. 1917 A, 259.

Jaekel, O. 1911 A, 56, fig. 51.

Jordan, D. S. 1919 B, 320.

1923 A, 94.

Leriche, M. 1908 B, 272.

Pompeckj, J. F. 1913 A, 1128.

St. John and Worthen 1883 A, 59, 63 (*Psephodus*); 75 (*Tæniodus*).

Woodward, A. S. 1898 B, 42, fig. 33.

Zittel and Koken 1911 A, 60.

Zittel and Schlosser 1923 A, 65, fig. 106.

Zittel and Woodward 1902 A, 36.

Psephodus acutus Branson.

Branson, E. B. 1905 A, 24, pl. i, fig. 1.

Pennsylvanian; Illinois.

Psephodus carbonarius Branson.

Branson, E. B. 1905 A, 25, pl. i, fig. 7.

Pennsylvanian; Indiana.

Psephodus crenulatus (Newb. and Worth.).

Hay, O. P. 1902 A, 288.

Branson, E. B. 1905 A, 22.

Newberry and Worthen 1866 A, 94, pl. viii.

figs. 12, 12a (*Aspidodus convolutus*).

Mississippian (Chester); Illinois, Kentucky, Missouri, Indiana.

Psephodus latus St. John and Worth.

Hay, O. P. 1902 A, 288.

Branson, E. B. 1906 A, 1387, pl. xli, fig. 23 (This species?).

Mississippian (Salem); Indiana: (St. Louis); Illinois and Missouri.

Psephodus legrandensis Branson.

Branson, E. B. 1905 A, 22, 24, pl. i, fig. 2.

Eastman, C. R. 1917 A, 259, pl. xviii, fig. 2.

Leriche, M. 1908 B, 273 ("Deltodus").

Mississippian (Kinderhook); Iowa.

Psephodus lunulatus St. John and Worth.

Hay, O. P. 1902 A, 288.

Mississippian (Chester); Illinois.

Psephodus obliquus St. John and Worth.

Hay, O. P. 1902 A, 288.

Branson, E. B. 1905 A, 22.

Mississippian (Kinderhook); Iowa.

Psephodus placenta (Newb. and Worth.).

Hay, O. P. 1902 A, 288.

Worthen, A. H. 1866 A, 115 (*Helodus*).

Mississippian (Kinderhook); Iowa.

Psephodus politus Newb.

Hay, O. P. 1902 A, 288.

Mississippian (Burlington); Illinois.

Psephodus regularis (St. John and Worth.).

Hay, O. P. 1902 A, 288.

Branson, E. B. 1906 A, 1388, pl. xli, fig. 32.

Mississippian (Salem); Indiana.

Psephodus? reticulatus St. John and Worth.

Hay, O. P. 1902 A, 288.

Eastman, C. R. 1903 B, 204.

Mississippian (Kinderhook); Iowa.

Psephodus? symmetricus St. John and Worth.

Hay, O. P. 1902 A, 288.

Mississippian (Kinderhook); Iowa.

Psephodus sp. indet.

Branson, E. B. 1906 A, 138.

1914 A, 68, pl. iv, fig. 18.

Mississippian (Salem); Indiana; Upper Devonian; Missouri.

SANDALODUS Newb. and Worth. Type *S. angustus* St. John and Worth.

Hay, O. P. 1902 A, 288.

Arlt, T. 1923 A, 487.

Barkas, W. J. 1874 D, 548.

Branson, E. B. 1905 A, 25.

1916 A, 652.

Dean, B. 1906 B, 139.

Eastman, C. R. 1902 B, 57.

1903 B, 196.

1917 A, 260.

Fuchs, T. 1900 A, 7.

Hay, O. P. 1901 B, 66.
Jordan, D. S. 1919 B, 342.
1923 A, 94.

St. John, O. 1902 A, 659.
Zittel and Koken 1911 A, 60.
Zittel and Schlosser 1923 A, 65.
Zittel and Woodward 1902 A, 36.

Sandalodus alatus (Newb. and Worth.).

Hay, O. P. 1902 A, 292 (Deltodus).
Branson, E. B. 1905 A, 30, pl. i, figs. 3-5.
Leriche, M. 1908 B, 277 (Deltodus).
Mississippian (Keokuk and Burlington);
Iowa, Illinois.

Sandalodus angustus Newb. and Worth.

Hay, O. P. 1902 A, 288.
Mississippian (Keokuk); Illinois.

Sandalodus carbonarius Newb. and Worth.

Newberry and Worthen 1866 A, 104, pl. x, figs. 4, 5.
Hay, O. P. 1902 A, 289 (Orthopleurodus angularis, in part).
Eastman, C. R. 1903 B, 181 (From Orthopleurodus).
Worthen, A. H. 1866 A, 61.
Pennsylvanian (Missourian); Kansas, Nebraska, Iowa, Missouri: (Coal measures); Illinois, Indiana.

Sandalodus convolutus Branson.

Branson, E. B. 1906 A, 1386, pl. xlii, figs. 42-45.
Mississippian (Salem); Indiana.

Sandalodus ellipticus Newb.

Hay, O. P. 1902 A, 289.
Mississippian (Kinderhook); Iowa.

Sandalodus emarginatus Branson.

Branson, E. B. 1905 A, 29, pl. ii, figs. 1-3.
Mississippian (Keokuk); Iowa.

Sandalodus lævissimus Newb. and Worth.

Hay, O. P. 1902 A, 289 (S. crassus; S. rhomboideus).
Branson, E. B. 1906 A, 1385.
Eastman, C. R. 1900 F, 582, fig. 1.

ORTHOPLEURODUS St. John and Worth.

Hay, O. P. 1902 A, 289.
Eastman, C. R. 1903 B, 181 (Deltodus).
Hay, O. P. 1901 B, 66.
Hayden, F. V. 1872 A, 132 (Xystrodus).
Jordan, D. S. 1919 B, 405 (Syn. of Sandalodus).
1919 D, 405 (Type said to be *O. convexus*).
1923 A, 94.

It is to be noted that *O. angularis*, the type of this genus, is referred by Eastman to *Deltodus*. If this is accepted, the other species follow.

Orthopleurodus angularis (Newb. and Worth.).

Hay, O. P. 1902 A, 289.

Eastman, C. R. 1903 B, 196, fig. 11.
Hussakof, L. 1908 A, 36 (S. crassus).
Newberry and Worthen 1866 A, 104, pl. x, figs. 6-8.
St. John and Worthen 1883 A, 186, pl. xii, figs. 8, 9 (and 5?).
Savage, T. E. 1902 A, 256, 262.
Mississippian (Keokuk); Iowa, Illinois, and Missouri: (Salem); Indiana.

Sandalodus latidens Branson.

Branson, E. B. 1905 A, 31, pl. i, fig. 11.
Mississippian (Keokuk); Iowa.

Sandalodus? minor (Newb. and Worth.).

Hay, O. P. 1902 A, 289.
Barkas, W. J. 1874 D, 548 (Trigonodus minor).
Branson, E. B. 1906 A, 1394.
Mississippian (Keokuk); Illinois: (Salem); Indiana.

Sandalodus occidentalis (Leidy).

Hay, O. P. 1902 A, 292 (Deltodus complanatus, D. occidentalis).
Barkas, W. J. 1874 D, 548 (Trigonodus major).
Branson, E. B. 1905 A, 26, 28, pl. i, figs. 8, 9.
1906 A, 1384, pl. xli, fig. 33.
Eastman, C. R. 1903 B, 198 (Sandalodus complanatus); 200, pl. iv, fig. 38; pl. v, fig. 53 (Deltodus occidentalis).
1917 A, 260, pl. viii, fig. 3 (Deltodus).
Savage, T. E. 1902 A, 256, 262 (Deltodus occidentalis?).
Mississippian (Keokuk, Kinderhook, Burlington, St. Louis); Illinois, Missouri: (Salem); Indiana.

Sandalodus parvulus Newb. and Worth.

Hay, O. P. 1902 A, 289.
Mississippian (St. Louis); Illinois, Missouri, Iowa.

Sandalodus porcatus Branson.

Branson, E. B. 1905 A, 30, pl. i, fig. 14.
Branson, E. B. 1906 A, 1386, pl. xli, fig. 26.
Mississippian (St. Louis); Indiana.

Sandalodus sp. indet.

Hay, O. P. 1902 A, 289. Mississippian (Warsaw); Illinois.

Type *O. angularis* (Newb. and Worth.).

Eastman, C. R. 1903 B, 181, pl. ii, fig. 19 (Deltodus).
Hayden, F. V. 1872 A, 127 (Xystrodus occidentalis).
Meek, F. B. 1869 A, 3 (Xystrodus? Name only).
1872 A, 101-127 (Deltodus?); 112-127 (Xystrodus?).
Newberry and Worthen 1866 A, 104, pl. x, figs. 4, 5 (Sandalodus carbonarius).
Woodruff, E. G. 1906 A, 290 (Deltodus).
Worthen, A. H. 1866 A, 61 (Cochliodus).
Pennsylvanian (Coal-measures); Indiana, Illinois, Iowa, Missouri, Kansas, Nebraska.

Orthopleurodus convexus St. John and Worth. | **Orthopleurodus novo-mexicanus** St. John and Worth.

Hay, O. P. 1902 A, 289.

Pennsylvanian (Coal-measures); West Virginia.

Hay, O. P. 1902 A, 289.

Cockerell, T. D. A. 1908 C, 161.
Mississippian; New Mexico.

PLATYODUS Newb. Type *P. lineatus* Newb.

Hay, O. P. 1902 A, 290.

Jordan, D. S. 1923 A, 94.

Platyodus lineatus Newb.

Hay, O. P. 1902 A, 290.

Hussakof, L. 1908 A, 33.
Mississippian (Waverly); Kentucky.

VATICINODUS St. John and Worth. Type *V. vetustus* St. John and Worth.

Hay, O. P. 1902 A, 290.

Arlt, T. 1923 A, 487.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 405 (Syn. of *Sandalodus*).
1923 A, 94.

Vaticinodus? similis St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (Chester); Illinois.

Vaticinocus? carbonarius St. John and Worth.

Hay, O. P. 1902 A, 290.

Pennsylvanian (Lower); Illinois.

Vaticinodus? simplex St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (St. Louis); Illinois, Missouri, Iowa.

Vaticinodus discrepans St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (Burlington); Iowa.

Vaticinodus vetustus St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (Kinderhook); Iowa.

Vaticinodus? lepis St. John and Worth.

Hay, O. P. 1902 A, 290.

Pennsylvanian (Upper Coal-measures); Illinois.

PLATYXYSTRODUS Hay. Type *Cochliodus striatus* M'Coy.

Hay, O. P. 1902 A, 290.

Arlt, T. 1923 A, 487 (*Xystrodus*).

Eastman, C. R. 1903 B, 180.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1920 C, 480.
1923 A, 94.

Platyxystrodus bellulus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Pennsylvanian (Lower Coal-measures); Illinois.

Platyxystrodus occidentalis (St. John).

St. John, O. 1870 A, 436 (*Xystrodus*).

Hay, O. P. 1902 A, 289 (*Orthopleurodus angularis*, in part).

Eastman, C. R. 1903 B, 181 (This genus?).

St. John, O. 1872 A, 244, pl. iv, fig. 18 (*Xystrodus?*).

Pennsylvanian (Missourian); Nebraska.

Platyxystrodus imitatus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (St. Louis); Missouri, Illinois, Iowa.

Platyxystrodus simplex (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (Burlington); Iowa, Illinois.

Platyxystrodus verus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (Chester); Illinois.

Platyxystrodus inconditus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (Keokuk); Illinois, Iowa.

ICANODUS S. A. Miller. Type *Tomodus convexus* St. John and Worth.

Hay, O. P. 1902 A, 291.

Barkas, W. J. 1874 D, 548 (*Tomodus*).

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1923 A, 94.

Icanodus limitaris (St. John and Worth.).

Hay, O. P. 1902 A, 291.

Mississippian (Burlington); Iowa.

STENOPTERODUS St. John and Worth. Type *S. planus* St. John and Worth.

Hay, O. P. 1902 A, 291.
1901 B, 67.

Jordan, D. S. 1919 B, 405 (Syn. of *Deltodus*).
1923 A, 94.

Stenopterodus elongatus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Warsaw); Illinois.

DELTODOPSIS St. John and Worth. Type *D. angustus* (Newb. and Worth.).

Hay, O. P. 1902 A, 291.
Arlt, T. 1923 A, 487.
Fuchs, T. 1900 A, 7.
Hay, O. P. 1901 B, 66.
Jordan, D. S. 1919 B, 405.
1923 A, 94.

Deltodopsis affinis St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Warsaw); Illinois.

Deltodopsis angustus (Newb. and Worth.).

Hay, O. P. 1902 A, 291.
Mississippian (Chester); Illinois.

Deltodopsis? bialveatus St. John and Worth.

Hay, O. P. 1902 A, 291.

DELTODUS Agassiz. Type *Pæcilodus sublaevis* M'Coy.

Agassiz, L. 1862, in Morris and Roberts, Quart.
Jour. Geol., xviii, 100.

Hay, O. P. 1902 A, 291.

Barkas, W. J. 1874 D, 546.

Branson, E. B. 1905 A, 25.
1906 A, 1394, pl. xlii, fig. 37 (This genus?).
1916 A, 652.

Coulon, L. 1903 A, 114.

Dean, B. 1906 B, 136 ("deltodonts").

Eastman, C. R. 1903 B, 196, 198.
1917 A, 261.

Fuchs, T. 1900 A, 7.

Jaekel, O. 1926 B, 43 ("deltodonten").

Hay, O. P. 1901 B, 66.

Hayden, F. V. 1872 A, 132.

Jordan, D. S. 1923 A, 94.

Leriche, M. 1908 B, 275.

Savage, T. E. 1902 A, 257.

Stevenson, J. J. 1907 A, 168.

Deltodus attenuatus Branson.

Branson, E. B. 1905 A, 33, pl. i, fig. 6.
Pennsylvanian; Missouri.

Deltodus cinctulus St. John and Worth.

Hay, O. P. 1902 A, 292.
Mississippian (Warsaw); Missouri, Illinois.

Deltodus cinctus Newb.

Hay, O. P. 1902 A, 292 (*D. cinctus*, *D. parvus*).

Stenopterodus planus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Burlington); Iowa, Illinois.

Stenopterodus sp. indet.

Hay, O. P. 1902 A, 291.
Mississippian (Keokuk); Illinois.

Branson, E. B. 1906 A, 1391, pl. xli, figs. 8, 9.

Mississippian (Salem); Indiana: (Burlington,
Keokuk); Iowa.

Deltodopsis? exornatus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Warsaw); Illinois.

Deltodopsis? inflexus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Keokuk); Illinois.

Deltodopsis sancti-ludovici St. John and Worth.

Hay, O. P. 1902 A, 291.
Branson, E. B. 1906 A, 1391.
Mississippian (St. Louis); Iowa, Illinois,
Missouri.

Branson, E. B. 1906 A, 1390, pl. xlii, fig. 41
(*D. parvus* a syn.).

Mississippian (Salem); Indiana: (St. Louis);
Iowa: (St. Louis); Missouri.

Deltodus cingulatus Newb. and Worth.

Hay, O. P. 1902 A, 292.
Mississippian (Chester); Illinois.

Deltodus fasciatus Newb. and Worth.

Hay, O. P. 1902 A, 292.
Mississippian (Keokuk); Illinois: War-
saw?; Illinois: (St. Louis?); Iowa.

Deltodus grandis Newb.

Hay, O. P. 1902 A, 292.
Branson, E. B. 1905 A, 25.
Mississippian (Keokuk); Illinois.

Deltodus inornatus Newb.

Hay, O. P. 1902 A, 292.
Mississippian (Kinderhook); Iowa.

Deltodus intermedius St. John and Worth.

Hay, O. P. 1902 A, 292.
Branson, E. B. 1906 A, 1384 (*Sandalodus occi-*
dentalis).
Keyes, C. R. 1897 A, 322.
Mississippian (St. Louis); Iowa, Illinois.

Deltodus latior St. John and Worth.

- Hay, O. P. 1902 A, 292.
 Branson, E. B. 1906 A, 1389 (D. spatulatus).
 Eastman, C. R. 1903 B, 200, pl. v, fig. 53
 (var. of D. occidentalis).
 Mississippian (Keokuk); Illinois, Iowa.

Deltodus littoni Newb. and Worth.

- Hay, O. P. 1902 A, 292.
 Hussakof, L. 1908 A, 30.
 Mississippian (St. Louis); Missouri.

Deltodus mercurii Newb.

- Hay, O. P. 1902 A, 292.
 Branson, E. B. 1916 A, 648, pl. ii, figs. 27, 28;
 pl. v, figs. 1-11; pl. vi, figs. 1-6.
 Cockerell, T. D. A. 1908 C, 161.
 Hussakof, L. 1908 A, 31.
 Pennsylvanian; New Mexico, Wyoming.

Deltodus obliquus (St. John and Worth.).

- Hay, O. P. 1902 A, 292.
 Mississippian (Chester); Illinois.

Deltodus planidens Cope.

- Hay, O. P. 1902 A, 292.
 Montgomery, T. H. 1904 A, 57 (Deltodes).
 Pennsylvanian?; Texas.

Deltodus powellii St. John and Worth.

- Hay, O. P. 1902 A, 292.
 Pennsylvanian; Colorado.

Deltodus propinquus St. John and Worth.

- Hay, O. P. 1902 A, 293.
 Pennsylvanian; Illinois.

Deltodus spatulatus Newb. and Worth.

- Hay, O. P. 1902 A, 291 (Deltodopsis convolutus?); 293 (D. spatulatus); 294 (Cochliodus costatus).
 Branson, E. B. 1905 A, 26, 28, 31, pl. i, figs. 10-13.
 1906 A, 1388, pl. xli, fig. 34 (Includes Cochliodus costatus and Deltodopsis convolutus).
 Eastman, C. R. 1903 B, 198, pl. iv, figs. 41, 42; pl. v, fig. 55 (D. convolutus a syn.); 201 (Cochliodus costatus).
 Fuchs, T. 1900 A, 8, fig. 2 (Deltodopsis convolutus).
 Newberry and Worthen 1870 A, pl. iii, fig. 11.
 Savage, T. E. 1902 A, 256, 262.
 Van Tuyl, F. M. 1925 A, 141.
 Mississippian (Kinderhook); Iowa: (Burlington); Illinois: (Salem); Indiana.

Deltodus trilobus St. John and Worth.

- Hay, O. P. 1902 A, 293.
 Branson, E. B. 1906 A, 1389, pl. xli, figs. 27, 28.
 Mississippian (Kinderhook, Burlington); Illinois: Iowa (Salem); Indiana.

Deltodus undulatus Newb. and Worth.

- Hay, O. P. 1902 A, 293.
 Eastman, C. R. 1900 F, 582.
 Mississippian (Keokuk); Iowa.

Deltodus sp. indet.

- Branson, E. B. 1906 A, 1391, pl. xli, fig. 24.
 Mississippian (Salem); Indiana.

CHITONODUS St. John and Worth. Type *C. springeri* St. John and Worth.

- Hay, O. P. 1902 A, 293 (Chitinodus, *errore*).
 Jordan, D. S. 1919 B, 405.
 1919 D, 405 (Type said to be *Cochliodus latus*).
 1920 C, 425 (Type said to be *C. springeri*).
 1923 A, 94.
 Zittel and Schlosser 1923 A, 65 (Chitinodus).

Chitonodus antiquus St. John and Worth.

- Hay, O. P. 1902 A, 293 (Chitinodus).
 Mississippian (Burlington); Iowa.

Chitonodus liratus St. John and Worth.

- Hay, O. P. 1902 A, 293 (Chitinodus).
 Mississippian (St. Louis); Illinois.

Chitonodus springeri St. John and Worth.

- Hay, O. P. 1902 A, 293 (Chitinodus).
 Mississippian (Burlington); Illinois, Iowa.

PÆCILODUS M'Coy. Type *P. jonesii* M'Coy.

- Hay, O. P. 1902 A, 293.
 Agassiz, L. 1844 C, 267.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 548 (Pæcilodus).
 Bronn, H. G. 1848 B, 1022.
 1849 A, 647.
 Eastman, C. R. 1903 B, 202.
 Egerton, P. G. 1853 C, 282.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 266.

- Jordan, D. S. 1923 A, 94.
 Ridewood, W. G. 1896 A, 387.
 Savage, T. E. 1902 A, 257.
 Woodward, A. S. 1898 B, 42, fig. 33.
 Zittel and Koken 1911 A, 60.

Pæcilodus carbonarius St. John and Worth.

- Hay, O. P. 1902 A, 293.
 Pennsylvanian; Illinois, Kansas.

Pæcilodus cestriensis St. John and Worth.

Hay, O. P. 1902 A, 293.
Mississippian (Chester); Illinois.

Pæcilodus convolutus Newb. and Worth.

Hay, O. P. 1902 A, 293.
Mississippian (Keokuk); Illinois, Iowa.

Pæcilodus rugosus (Newb and Worth.).

Hay, O. P. 1902 A, 293 (Chitinodus).
Eastman, C. R. 1903 B, 202.

Savage, T. E. 1902 A, 262.
Mississippian (Keokuk); Illinois, Iowa.

Pæcilodus tribulis (St. John and Worth.).

Hay, O. P. 1902 A, 293 (Chitinodus).
Eastman, C. R. 1903 B, 203.
Mississippian (Keokuk); Iowa, Illinois.

Pæcilodus varsoviensis St. John and Worth.

Hay, O. P. 1902 A, 294.
Mississippian (Warsaw); Illinois.

STREBLODUS Agassiz. Type *Cochliodus oblongus* M'Coy.

Agassiz, L. 1862, in Morris and Robert's, Quart.
Jour. Geol. Soc., xviii, 101.
Eastman, C. R. 1903 B, 182.
Jordan, D. S. 1919 B, 320.
Woodward, A. S. 1889 D, 209.
Zittel and Schlosser 1923 A, 65.
Zittel and Woodward 1902 A, 36.

Streblodus angustus Eastman.

Eastman, C. R. 1903 B, 182, pl. ii, fig. 20, text-
fig. 9.
Woodruff, E. G. 1906 A, 290.
Pennsylvania (Atchison); Nebraska.

COCHLIODUS Agassiz. Type *C. contortus* Agassiz.

Hay, O. P. 1902 A, 294.
Abel, O. 1912 F, 488.
Agassiz, L. 1844 C, 267.
Aichel, O. 1919 A, 242.
Arlt, T. 1923 A, 487.
Barkas, W. J. 1874 D, 545.
Böklen, H. 1887 A, 77.
Branson, E. B. 1905 A, 22.
Bronn, H. G. 1848 A, 317.
1849 A, 647.
Eastman, C. R. 1902 B, 57.
Fuchs, T. 1900 A, 7.
Giebel, C. G. 1855 A, 115.
Goodrich, E. S. 1909 A, 146.
Hay, O. P. 1901 B, 66.
Heilprin, A. 1887 A, 300.
Jaekel, O. 1911 A, 53.
1926 B, 43 ("cochliodonten").
Jordan, D. S. 1923 A, 94.
Leriche, M. 1908 B, 278.
Owen, R. 1845 B, 62, pl. xxii, fig. 1.
Peyer, B. 1920 A, 109.
Pompeckj, J. F. 1913 A, 1128, fig. 31.
Reynolds, S. H. 1897 A, 109.
Ridewood, W. G. 1896 A, 385, 387, figs. 11, 12.
Terra, P. 1911 A, 200, fig. 46.
Van de Wiele, C. 1902 A, 245 ("cochliodontidés").
Woodward, A. S. 1915 B, lxvi ("cochliodonts").
Zittel and Koken 1911 A, 59.
Zittel and Schlosser 1923 A, 65, fig. 105.
Zittel and Woodward 1902 A, 35.

Cochliodus latus Leidy.

Hay, O. P. 1902 A, 293 (Chitinodus).
Eastman, C. R. 1900 F, 582 (*Helodus coxanus*
a syn.)
1902 B, 57.

Eastman, C. R. 1902 D, 659.
1903 B, 199, 205.
1909 A, 489.

Merrill, G. P. 1907 A, 11 (*Helodus coxanus*).
Van Tuyl, F. M. 1925 A, 150, 154 (*C. nobilis*).
Mississippian (Keokuk); Illinois, Iowa.

Cochliodus leidyi St. John and Worth.

Hay, O. P. 1902 A, 294.
Eastman, C. R. 1902 D, 658.
Mississippian (Chester); Illinois.

Cochliodus obliquus St. John and Worth.

Hay, O. P. 1902 A, 294.
Mississippian (St. Louis); Missouri.

Cochliodus sancti-ludovici (St. John and Worth.).

Hay, O. P. 1902 A, 293 (*Pæcilodus*).
Eastman, C. R. 1902 D, 658, 659.
St. John, O. 1902 A, 658, fig. 4.
Mississippian (St. Louis); Illinois, Iowa.

Cochliodus vanhornii St. John and Worth.

Hay, O. P. 1902 A, 294.
Mississippian (St. Louis); Illinois, Iowa,
Missouri.

Cochliodus sp. indet.

Branson, E. B. 1906 A, 1394, pl. xlii, fig. 37
(*Cochliodus* or *Deltodus*).
Mississippian (Salem); Indiana.

DELTOPTYCHIUS Agassiz, L. Type *Cochliodus acutus* M'Coy.

- Agassiz, L. 1862, in Morris and Roberts, Quart. Jour. Geol., xviii, 100.
 Hay, O. P. 1902 A, 294.
 Abel, O. 1912 F, 488.
 Arltdt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 546.
 Eastman, C. R. 1903 B, 196.
 Hay, O. P. 1901 B, 67.
 Jaekel, O. 1892 B, 157.
 Jordan, D. S. 1919 B, 320.
 1923 A, 94
 Woodward, A. S. 1921 B, 37.
 1924 A, 109.
 Zittel and Koken 1911 A, 60.
 Zittel and Schlosser 1923 A, 65.

Deltoptychius expansus St. John and Worth.

- Hay, O. P. 1902 A, 294.
 Mississippian (St. Louis); Illinois, Iowa, Missouri.

Deltoptychius nitidus (Leidy).

- Hay, O. P. 1902 A, 294.
 Mississippian (Chester); Illinois.

Deltoptychius primus St. John and Worth.

- Hay, O. P. 1902 A, 294.
 Mississippian (Burlington); Iowa.

Deltoptychius springeri (St. John and Worth.).

- Hay, O. P. 1902 A, 293 (*Pæcilodus*).
 Cockerell, T. D. A. 1908 C, 161 (*Pæcilodus*).
 Eastman, C. R. 1903 B, 202 (To *Deltoptychius*).
 Mississippian; New Mexico.

Deltoptychius varsoviensis St. John and Worth.

- Hay, O. P. 1902 A, 294.
 Mississippian (Warsaw); Illinois.

Deltoptychius wachsmuthi St. John and Worth.

- Hay, O. P. 1902 A, 294.
 Mississippian (Keokuk); Illinois, Iowa, Missouri.

Deltoptychius wortheni (St. John and Worth.).

- Hay, O. P. 1902 A, 294 (*Pæcilodus*).
 Eastman, C. R. 1903 B, 202 (To *Deltoptychius*).
 Mississippian (Chester); Illinois.

HYBODONTIDÆ Owen.

- Owen, R. 1846 E, 51.
 Hay, O. P. 1902 A, 295 (*Orodontidæ*); 298 (*Heterodontidæ*).
 Abel, O. 1912 F, 489, 565 (*Cestracionidæ*).
 1919 A, 121 (*Heterodontidæ*).
 Agassiz, L. 1844 D, 142 ("*cestraciontes*").
 1874 A, 131 (*Cestracion*).
 Allis, E. P. 1915 A, 577 (*Cestracion*).
 Ameghino, F. 1906 A, 187 (*Cestraciontidæ*).
 Arltdt, T. 1907 D, 644 (*Cestracionidæ*); 659 (*Hybodontidæ*).
 1923 A, 487 ("*hybodontiden*").
 Beer, G. R. 1924 A, 17, figs. 1-7, 15 (*Heterodontus*).
 1924 B, 39, figs. 1-21 (*Heterodontus*).
 1924 C, 298, figs. 11, 12, 41 (*Heterodontus*).
 1925 A, 270, figs. 2-6, 107, 109, 116 (*Heterodontus*).
 Bonaparte, C. L. 1840 A, 46 (*Cestraciontina*).
 Bridge, T. W. 1904 A, 444, 742 (*Heterodontidæ*).
 Bronn, H. G. 1849 A, 830, seq. (*Cestraciontes*).
 Carus, V. 1875 A, 602 (*Cestraciontidæ*).
 Chapman, F. 1918 A, 5 (*Cestraciontidæ*).
 Cunningham, J. T. 1912 A, 246 (*Heterodontidæ*).
 Daniel, J. F. 1914 A, 147, pls. viii, ix, figs. 1-4 (*Heterodontus*).
 1915 A, 447, pls. i-viii (*Heterodontus*).
 1916 A, 353 (*Heterodontus*).
 Day, E. C. H. 1865 A, 565 ("*cestracionts*").
 Dean, B. 1906 B, 155 ("*cestraciontes*").
 Deecke, W. 1913 A, 80 ("*hybodontiden*").
 Dollo, L. 1889 F, 341 (*Cestraciontidæ*).

- Dollo, L. 1904 C, 50 (*Cestraciontidæ*).
 Duméril, A. 1856 A, 132 ("*cestraciontes*").
 Eastman, C. R. 1902 B, 56 (*Cestracion*); 70 (*Cestraciontidæ*).
 1902 F, 267 ("*cestracionts*").
 Fowler, H. W. 1911 A, 26 (*Heterodontidæ*).
 Fürbringer, K. 1903 A, 362 (*Cestraciontidæ*).
 1904 B, 461 (*Cestracion*).
 Gegenbaur, C. 1870 B, 450, pl. xvi, figs. 18-20 (*Heterodontus*).
 1870 C, 402, fig. 18 (*Heterodontus*).
 Gill, T. 1872 C, 23 (*Heterodontidæ*).
 1885 A, lxiv (*Heterodontidæ*).
 1905 A, 657 (*Heterodontidæ*).
 Goodrich, E. S. 1909 A, 145 (*Cestraciontidæ*).
 Gregory, W. K. 1907 D, 446 (*Cestraciontidæ*, *Orodontidæ*).
 Hawkes, O. A. M. 1905 A, 81 (*Heterodontidæ*).
 Hay, O. P. 1901 B, 67, 70 (*Heterodontidæ*); 67, 71 (*Orodontidæ*).
 1909 C, 58 (*Heterodontus*).
 Hoernes, R. 1886 A, 542 (*Cestraciontidæ*).
 Huber, O. 1901 A, 609 (*Cestraciontidæ*).
 Humphreys, J. 1908 A, 10 (*Cestracion*).
 Jaekel, O. 1903 C, 389 ("*orodontiden*").
 Jordan, D. S. 1905 A, i, 527 (*Hybodontidæ*); 528 (*Orodontidæ*); ii, 574 (*Heterodontidæ*).
 1907 B, 184, 188, 758 (*Heterodontidæ*, *Orodontidæ*, *Hybodontidæ*).
 1923 A, 95 (*Orodontidæ*, *Heterodontidæ*).
 1925 B, 7 (*Heterodontidæ*).
 Jordan and Evermann 1917 A, 95 (*Heterodontus*).

- Jordan and Gilbert 1882 A, 32, 62 (Cestraciontidæ).
 Kerr, J. G. 1908 A, 169 (Heterodontus).
 Koken, E. 1904 A, 305 ("hybodontiden," Cestraciontidæ).
 1907 A, 272 ("cestraciontiden").
 Leigh-Sharpe, W. H. 1926 A, 337 (Cestraciontidæ).
 Leunis and Ludwig 1883 A, 785 (Cestraciontidæ).
 Luther, A. 1909 A, 3 (Heterodontidæ).
 Miklouho-Maclay and Macleay 1879 A, 307 (Heterodontidæ); 320 (Heterodonti).
 Mummery, J. H. 1917 A, 251 (Cestracion).
 Osburn, R. C. 1907 A, 418 (Cestracion).
 1907 B, 174 ("cestracion").
 Owen, R. 1845 B, 32, pls. x-xiii ("cestracions").
 Pompeckj, J. F. 1913 A, 1123, 1126 (Hybodontidæ, Cestraciontidæ).
 Rabinerson, A. 1925 A, 560, figs. 1, 2 (Cestracion).
 Rauther, M. 1913 A, 1098 (Heterodontidæ).
 Regan, C. T. 1906 A, 749, 750 (Cestraciontidæ, Hybodontidæ); 723 (Hybodontina).
 1908 C, 493 (Cestraciontidæ).
 Regan, C. T. 1908 D, 493 (Cestraciontidæ).
 Ridewood, W. G. 1921 A, 369 (Cestraciontidæ).
 Schlosser, M. 1917 A, 133, 134, 135, 136, 137, 139, 141, 147 ("cestraciontiden," "hybodontiden").
 Schmalhausen, J. J. 1913 A, 24 (Heterodontidæ).
 Secerov, S. 1911 A, 8, 10, pl. i (Cestracion).
 Steinmann, G. 1907 A, 400 (Hybodontidæ, Cestraciontidæ).
 Stromer, E. 1912 A, 19 (Cestraciontidæ); 20 (Hybodontidæ).
 Strüver, J. 1864 B, 12, pls. i, ii (Heterodontoidæ).
 Terra, P. 1911 A, 199 (Cestraciontidæ).
 Van Wijhe, J. W. 1922 A, 291 (Cestraciontidæ).
 Versluys, J. 1922 B, 96 (Heterodontidæ).
 Waite, E. R. 1896 A, 325 ("cestracions").
 Wallace, A. R. 1876 A, ii, 461 (Cestraciontidæ).
 Whitehouse, R. H. 1910 C, 325 (Heterodontus).
 Woodward, A. S. 1891 E, 62 ("hybodonts," "cestracions").
 1912 A, (1911), 213 (Cestraciontidæ).
 1921 B, 37 ("hybodonts").
 Zittel and Koken 1911 A, 53, 56 (Hybodontidæ, Cestraciontidæ).
 Zittel and Schlosser 1923 A, 58 (Hybodontidæ).

ORODUS Agassiz. Type *O. cinctus* Agassiz.

- Hay, O. P. 1902 A, 295.
 Agassiz, L. 1844 C, 267.
 Barkas, W. J. 1874 D, 547.
 Bronn, H. G. 1848 B, 852.
 1849 A, 646.
 Cushing, H. P. 1912 A, 581.
 Dean, B. 1909 C, 249.
 Eastman, C. R. 1902 B, 77.
 1907 B, 75.
 1909 A, 489.
 Eastman, Gregory and Matthew 1917 A, 117.
 Egerton, P. G. 1853 C, 282.
 Giebel, C. G. 1855 A, 115.
 Goodrich, E. S. 1909 A, 147.
 Hay, O. P. 1901 B, 67, 70.
 1912 A, 36.
 Heilprin, A. 1887 A, 300.
 Hoernes, R. 1886 A, 543.
 Jordan, D. S. 1923 A, 95.
 Mantell, G. A. 1844 A, 618, fig. 128.
 Miller, A. M. 1916 A, 72.
 Pompeckj, J. F. 1913 A, 1125.
 Raymond, P. E. 1925 B, 554.
 Savage, T. E. 1902 A, 257.
 Schlosser, M. 1917 A, 133.
 Zittel and Koken 1911 A, 53.
 Zittel and Schlosser 1923 A, 59, figs. 15, 92.
- Orodus alleni** St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Pennsylvanian; Iowa.
- Orodus carinatus** St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Keokuk); Iowa.
- Orodus colletti** Newb.
 Hay, O. P. 1902 A, 295.
 Branson, E. B. 1906 A, 1394.
 Mississippian (Salem); Indiana.
- Orodus dædaleus** St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Kinderhook); Iowa.
- Orodus decussatus** St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Kinderhook); Iowa.
- Orodus devonicus** Hussakof and Bryant.
Hussakof and Bryant 1919 A, 15, 153, pl. xlv, fig. 4.
 Upper Devonian (Genesee); New York.
- Orodus elegantulus** Newb. and Worth.
 Hay, O. P. 1902 A, 295.
 Claypole, E. W. 1903 A, 319, 321.
 Eastman, C. R. 1907 B, 18.
 Hussakof and Bryant 1919 A, 153.
 Mississippian (Burlington); Iowa, Indiana; Mississippian?; Ohio.
- Orodus fastigiatus** St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Burlington); Iowa.
- Orodus gibbosus** (Newb. and Worth.).
 Hay, O. P. 1902 A, 295.
 Mississippian (Keokuk); Illinois, Iowa.
- Orodus intermedius** Eastman.
Eastman, C. R. 1903 B, 183, pl. iv, figs. 35, 36.
 Pennsylvanian (Missourian); Missouri.
- Orodus major** St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Burlington); Iowa.

Orodus mammillaris Newb. and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (Keokuk); Illinois.

Orodus minutus Newb. and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (Keokuk); Illinois.

Orodus neglectus St. John and Worth.

Hay, O. P. 1902 A, 295.
Branson, E. B. 1906 A, 1391, pl. xlii, figs. 35, 36 (This species?).
Mississippian (St. Louis); Illinois, Iowa: (Salem); Indiana.

Orodus ornatus Newb. and Worth.

Hay, O. P. 1902 A, 295.
Savage, T. E. 1902 A, 262 (O. ornatissimus).
Mississippian (Keokuk); Illinois, Iowa.

Orodus? parallellus St. John and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (Kinderhook); Iowa.

Orodus parvulus St. John and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (St. Louis); Illinois.

Orodus plicatus Newb. and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (St. Louis); Missouri.

Orodus ramosus Agassiz.

Hay, O. P. 1902 A, 296.
Brongniart, C. 1888 C, 47.
Hussakof, L. 1908 A, 32.
Worthen, A. H. 1866 A, 115 (O. multicarinatus).
Mississippian (Kinderhook); Indiana: Waverly; Michigan.

Orodus simplex Branson.

Branson, E. B. 1906 A, 1392, pl. xlii, figs. 25, 26.
Mississippian (Salem); Indiana.

Orodus tuberculatus Newb. and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (Burlington); Illinois, Iowa.

Orodus turgidus St. John and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (Chester); Illinois.

Orodus variabilis Newb.

Hay, O. P. 1902 A, 296.
Newberry, J. S. 1874 G, 94, 98.
Mississippian (Waverly); Ohio, Kentucky.

Orodus variocostatus St. John and Worth.

St. John and Worthen 1875 A, 304, pl. vii, figs. 1-9.
Hay, O. P. 1902 A, 296.
Mississippian (Burlington); Illinois, Iowa.

. **EOÖRODUS** Branson. Type *E. typus* Branson.

Branson, E. B. 1914 A, 68.
Jordan, D. S. 1923 A, 95.

EOörodus typus Branson.

Branson, E. B. 1914 A, 68, pl. iv, figs. 22-24.
Upper Devonian (Craghead); Missouri.

LEIODUS St. John and Worth. Type *L. calcaratus* St. John and Worth.

Hay, O. P. 1902 A, 296.
1901 B, 67.
Jordan, D. S. 1923 A, 95.

Leiodus calcaratus St. John and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (Burlington); Iowa, Illinois.

Leiodus grossipunctatus St. John and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (Burlington); Iowa, Illinois.

MESODMODUS St. John and Worth. Type *M. exsculptus* St. John and Worth.

Hay, O. P. 1902 A, 297.
1901 B, 67.
Jordan, D. S. 1923 A, 95.

Mesodmodus explanatus St. John and Worth.

Hay, O. P. 1902 A, 297.
Mississippian (Kinderhook); Iowa.

Mesodmodus exsculptus St. John and Worth.

Hay, O. P. 1902 A, 297.
Mississippian (Kinderhook); Iowa.

Mesodmodus ornatus St. John and Worth.

Hay, O. P. 1902 A, 297.
Mississippian (Burlington); Iowa, Illinois.

DESMIODUS St. John and Worth. Type *D. tumidus* St. John and Worth.

Hay, O. P. 1902 A, 297.

1901 B, 67.

Jordan, D. S. 1923 A, 95.

Desmiodus costelliferus St. John and Worth.

Hay, O. P. 1902 A, 297.

Branson, E. B. 1906 A, 1392 (*D. costelliferous*).

Mississippian (St. Louis); Illinois, Missouri.

Desmiodus? flabellum St. John and Worth.

Hay, O. P. 1902 A, 297.

Mississippian (Keokuk); Missouri.

Desmiodus? ligoniformis St. John and Worth.

Hay, O. P. 1902 A, 297.

Mississippian (Keokuk); Missouri, Iowa.

Desmiodus minusculus (Newb. and Worth.).

Hay, O. P. 1902 A, 297.

Mississippian (Keokuk); Illinois.

Desmiodus salemensis Branson.

Branson, E. B. 1906 A, 1392, pl. xlii, figs. 12-14.

Mississippian (Salem); Indiana.

Desmiodus tumidus St. John and Worth.

Hay, O. P. 1902 A, 297.

Mississippian (St. Louis); Illinois, Missouri.

PETRODUS M'Coy, F. Type *P. patelliformis* M'Coy.

Hay, O. P. 1902 A, 297.

Barkas, W. J. 1874 D, 547.

Eastman, C. R. 1903 B, 219.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 95.

Woodward, A. S. 1903 A, 488.

Zittel and Koken 1911 A, 63.

Petrodus acutus Newb. and Worth.

Hay, O. P. 1902 A, 297.

Woodward, A. S. 1903 A, 487, fig. 9.

Pennsylvanian; Illinois.

Petrodus buttersi Newberry.

Newberry, J. S. 1889 A, pl. xxvii, fig. 1.

Hussakof, L. 1908 A, 50.

Pennsylvanian; Illinois.

Petrodus occidentalis Newb. and Worth.

Hay, O. P. 1902 A, 298.

Keyes, C. R. 1888 B, 26 (This species?).

1891 A, 332.

Savage, T. E. 1922 A, 238, 240, 246.

Shaw and Savage 1912 A, 7.

Pennsylvanian; Illinois, Indiana, Iowa.

Petrodus? pustulosus Newb. and Worth.

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

STEMMATIAS Hay. Type *Stemmatodus cheiriformis* St. John and Worth.

Hay, O. P. 1902 A, 298.

Eastman, C. R. 1903 B, 219.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 95.

Stemmatias bicristatus (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

Stemmatias bifurcatus (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

Stemmatias cheiriformis (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

Stemmatias compactus (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Chester); Illinois.

Stemmatias keokuk (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Keokuk); Illinois, Iowa.

Stemmatias simplex (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

Stemmatias symmetricus (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

HYBODUS Agassiz. Type *H. plicatilis* Agassiz. See, however, Jordan 1923 A, 95.

Hay, O. P. 1902 A, 299.

Abel, O. 1908 E, 402.

1919 A, 119, fig. 77.

1920 A, 327, 330, fig. 517.

Agassiz, L. 1844 D, 142 ("hybodontes").

Aichel, O. 1919 A, 242.

Alessandri, G. 1910 A, 31.

Andreae, A. 1900 A, 470 (Hybodus); 471 (Orthohybodus, Parahybodus).

Arldt, T. 1923 A, 487.

- Barkas, W. J. 1874 B, 163, figs. 1, 2.
1874 C, 287.
1874 D, 546.
- Branca, W. 1908 C, 395.
- Bridge, T. W. 1904 A, 445.
- Bronn, H. G. 1848 A, 598.
1849 A, 650.
- Broom, R. 1909 A, 252, pl. xii, fig. 1.
- Case, E. C. 1915 A, 124.
- Charlesworth, E. 1839 A, 242, pl. iv.
- Coulon, L. 1903 A, 112.
- Day, E. C. H. 1865 A, 565.
- Dean, B. 1909 C, 249.
- Deecke, W. 1926 A, 185.
- Dollo, L. 1889 F, 336.
- Eastman, C. R. 1902 B, 77.
1911 B, 184.
- Egerton, P. G. 1855 A, 8 B, 2.
- Evans, H. M. 1923 A, 15, text-fig. 8.
- Flower, W. H. 1886 A, 285.
- Fürbringer, K. 1904 B, 464.
- Fraas, E. 1889 B, 233.
1895 A, 24.
- Gervais, P. 1852 A, explan. pls. lxxvii, lxxviii.
1859 A, 525, 526, pls. lxxvii, lxxviii.
- Giebel, C. G. 1855 A, 114, pl. xlvii.
- Goodrich, E. S. 1908 A, 753.
1909 A, 511.
- Hay, O. P. 1901 B, 67, 71 (Hybodus, Parahybodus, Orthohybodus).
- Humphreys, J. 1908 A, 11.
- Heilprin, A. 1887 A, 300.
- Jacobshagen, E. 1923 A, 178.
- Jaekel, O. 1898 D, 151.
1903 F, 36.
1906 C, 158.
- Jordan, D. S. 1919 B, 186.
1923 A, 95.
- Krause, P. G. 1901 A, 120.
- Klaatsch, H. 1890 A, 121.
- Koken, E. 1893 B, 334.
1904 A, 304.
1907 A, 261, pls. xi-xiv.
- Mantell, G. A. 1844 A, 609, fig. 129.
- Owen, R. 1845 B, 56, pl. xi, fig. 1.
- Philippi and Frech 1903 A, 10, pl. i.
- Pompeckj, J. F. 1913 A, 1125, figs. 25, 27.
- Priem, F. 1908 B, 3, figs. 1-3, 9.
- Regan, C. T. 1906 A, 748.
- Reis, O. M. 1894 A, 61.
- Ridewood, W. G. 1896 A, 383.
1921 A, 344.
- Sauvage, E. 1867 A, 107.
1902 C, 180.
- Schlesinger, G. 1909 A, (142).
- Schlosser, M. 1917 A, 135, 139.
- Schmidt, M. 1921 A, 103, figs. 1, 2.
- Stensiö, E. A. 1921 A, 1.
1925 A, 126, fig. 31.
- Storms, R. 1891 A, 145.
- Stromer, E. 1917 A, 23.
1925 A, 19, 21.
- Terra, P. 1911 A, 202, fig. 52.
- Traquair, R. H. 1900 C, 505.
- Williamson, W. C. 1851 A, 679.
- Woodward, A. S. 1891 E, 62, pls. i, ii.
1896 E, 69.
1915 B, lxvii.
1917 C, 541.
1919 A (1916), 3, pls. i-iii; text-figs. 1-5.
1921 A, 179.
1921 B, 30, fig. 1.
1921 C, 179.
1922 C, 70, fig. 68.
1924 B, 340.
- Zittel and Koken 1911 A, 53, fig. 89.
- Zittel and Schlosser 1923 A, 59, figs. 11, 93, 96.
- Hybodus clarkensis** Cragin.
- Hay, O. P. 1902 A, 299.
Upper Cretaceous ("Neocomian"); Kansas.
- Hybodus copei** Hay.
- Hay, O. P. 1902 A, 299.
- Hussakof, L. 1908 A, 31.
Triassic?; Texas.
- Hybodus nevadensis** Wemple.
- Wemple, E. M. 1906 A, 72, pl. vii, fig. 3.
- Jordan and Hannibal 1923 A, 30, 61.
- Merriam, J. C. 1908 C, 18.
Triassic (Middle); Nevada.
- Hybodus polyprion** Agassiz.
- Hay, O. P. 1902 A, 299.
- Cockerell, T. D. A. 1908 C, 161.
- Marsh, O. C. 1899 A, 230.
Upper Jurassic (Stonesfield); England:
(Morrison); Wyoming.
- Hybodus shastensis** Wemple.
- Wemple, E. M. 1906 A, 73, pl. vii, fig. 4.
- Jordan, D. S. 1907 A, 98, fig. 1.
- Jordan and Beal 1913 A, 246.
- Jordan and Hannibal 1923 A, 30, 61.
Triassic (Upper); California.
- Hybodus** sp. indet.
- Case, E. C. 1915 A, 96.
- Hussakof, L. 1911 A, 157, pl. xxx, fig. 5.
Permian (Wichita?, Clear Fork?); Texas.

ACRODUS Agassiz. Type *A. gaillardoti* Agassiz.

- Hay, O. P. 1902 A, 299.
- Agassiz, L. 1844 C, 267.
- Alessandri, G. 1910 A, 34.
- Ameghino, F. 1906 A, 186.
- Andreæ, E. 1900 A, 471.
- Barkas, W. J. 1874 D, 544.
- Bridge, T. W. 1904 A, 445.
- Bronn, H. G. 1848 A, 8.
1849 A, 648.
- Coulon, L. 1903 A, 115.
- Deecke, W. 1926 A, 185.
- Egerton, P. G. 1855 A, 8 B, 2.
- Fowler, H. W. 1911 A, 28.
- Fraas, E. 1889 B, 233 (Acrodus); 234 (Sphenonchus).
- Gervais, P. 1852 A, explan. pl. lxxvii.
1859 A, 525, pl. lxxvii.
- Giebel, C. G. 1855 A, 115.

Hay, O. P. 1901 B, 67, 71.
 Heilprin, A. 1887 A, 300.
 Humphreys, J. 1908 A, 11.
 Jordan, D. S. 1905 A, i, 528.
 1923 A, 95.
 Klaatsch, H. 1890 A, 122.
 Koken, E. 1893 B, 384.
 Moodie, R. L. 1926 A, 61, 79, 81, pl. ix.
 Owen, R. 1845 B, 54, pls. xiv-xvi.
 1866 A, 378.
 Philippi and Frech 1903 A, 11, pl. i.
 Pompeckj, J. F. 1913 A, 1125, fig. 24.
 Priem, F. 1908 B, 4.
 Reynolds, S. H. 1897 A, 109.
 Sauvage, E. 1867 A, 106.
 Schlosser, M. 1917 A, 135.
 Stensiö, E. A. 1921 A, 8.
 Storms, R. 1891 A, 114.
 Woodward, A. S. 1915 B, lxxvii.
 1917 C, 541.
 1919 A, (1916), 14.
 1922 C, 70, fig. 69.
 1924 B, 342.
 Zittel and Koken 1911 A, 54.
 Zittel and Schlosser 1923 A, 60, fig. 97.

Acrodus alexandræ Wemple.

Wemple, E. M. 1906 A, 71, pl. vii, figs. 5, 6.
 Jordan and Hannibal 1923 A, 30, 61.
 Merriam, J. C. 1908 C, 18.
 Triassic (Middle); Nevada.

Acrodus emmonsii Leidy.

Hay, O. P. 1902 A, 299.
 Miocene?; North Carolina.

Acrodus humilis Leidy.

Hay, O. P. 1902 A, 299.
 Fowler, H. W. 1911 A, 28, fig. 3.
 Upper Cretaceous (Vincentown); New Jersey.

Acrodus oreodontus Wemple.

Wemple, E. M. 1906 A, 72, pl. vii, figs. 1, 2.
 Jordan and Hannibal 1923 A, 30, 61.
 Merriam, J. C. 1908 C, 18.
 Triassic (Middle); Nevada.

Acrodus wempliæ Jordan.

Jordan, D. S. 1907 A, 100, fig. 2.
 Jordan and Beal 1913 A, 245, 246.
 Jordan and Hannibal 1923 A, 30, 61.
 Triassic (Upper); California.

WODNIKA Münster. Type *Acrodus althausii* Münster.

Münster, G. 1843, Beitr. Petrefact., 48.
 Case, E. C. 1926 B, 196 (Wodnikia).
 Jordan, D. S. 1923 A, 95.
 Jordan and Gilbert 1919 A, 17, 20.
 Schlosser, M. 1917 A, 134.
 Woodward, A. S. 1889 D, 248.

Wodnika ocoryæ Jordan and Gilbert.

Jordan and Gilbert 1919 A, 17, 19, pl. vii, fig. 8.
 Jordan, D. S. 1923 A, 95 ("Not a tooth but a concretion").
 Jordan and Hannibal 1923 A, 32 ("chalcedony concretion").

STROPHODUS Agassiz. Type *S. reticulatus* Agassiz.

Agassiz, L. 1843 B, (1838), iii, 116.
 Coulon, L. 1903 A, 116.
 Gervais, P. 1852 A, explan. pl. lxxviii.
 1859 A, 526, pl. lxxviii.
 Giebel, C. G. 1855 A, 115.
 Heilprin, A. 1887 A, 300.
 Jordan, D. S. 1923 A, 95.
 Nicholson and Lydekker 1889 A, 943 (Syn. of *Asteracanthus*).
 Owen, R. 1869 C, 193, pl. vii.
 Pompeckj, J. F. 1913 A, 11-25, fig. 27.
 Priem, F. 1911 C, 7, pl. ii.
 Sauvage, E. 1867 A, 101.
 Woodward, A. S. 1889 D, 307, 314 (Syn. of *Asteracanthus*).

Woodward, A. S. 1898 B, 46 (Syn. of *Asteracanthus*).
 1922 C, 71, fig. 70.
 Zittel and Schlosser 1923 A, 62, figs. 98, 99.

Strophodus shastensis Bryant.

Bryant, H. C. 1914 A, 27, figs. 1, 2.
 Jordan and Hannibal 1923 A, 32, 61 (*Asteracanthus*).
 Zittel and Schlosser 1923 A, 62.
 Triassic (Upper); California.

Strophodus sp. indet.

Bryant, H. C. 1914 B, 155. Upper Triassic; California.

PALÆOSPINAX Egerton. Type *Thyellina prisca* Agassiz.

Egerton, P. G. 1872, Mem. Geol. Surv. Unit. Kingd., Dec. 13, No. 7.
 Bridge, T. W. 1904 A, 197, 445.
 Davis, J. W. 1881 C, 429, pl. xx.
 Dean, B. 1909 C, 254.
 Dollo, L. 1889 F, 337.
 Egerton, P. G. 1873 A, 420.
 Evans, H. M. 1923 A, 15, text-fig. 7.
 Goodrich, E. S. 1909 A, 144.
 Jaekel, O. 1898 D, 152.
 Jordan, D. S. 1905 A, i, 528.

Jordan, D. S. 1923 A, 96.
 Koken, E. 1907 A, 271.
 Lambe, L. M. 1918 B, 27.
 Nicholson and Lydekker 1889 A, 943.
 Pompeckj, J. F. 1913 A, 1126.
 Regan, C. T. 1906 A, 723 (To *Palæospinacinae*).
 Sternberg, C. M. 1926 A, 104.
 Storms, R. 1891 A, 144.
 Woodward, A. S. 1889 D, xvii, 321.
 1898 B, 46.
 1915 B, lxix.

Zittel, K. A. 1890 A, 87.
 Zittel, Eastman, etc. 1902 A, 29.
 Zittel and Koken 1911 A, 56.
 Zittel and Schlosser 1923 A, 62.

Palæospinax ejuncidus Lambe.
Lambe, L. M. 1918 B, 27, figs.
 Upper Cretaceous (Edmonton); Alberta.

SYNECHODUS Woodward. Type *Hybodus dubrisiensis* Mackie.

Woodward, A. S. 1888 I, 288.
Chapman, F. 1918 A, 5, 31, pl. v, figs. 11, 13.
Eastman, C. R. 1901 B, 102.
Jordan, D. S. 1923 A, 96.
Leriche, M. 1902 A, 29.
Priem, F. 1908 B, 59, 77, figs. 20, 34-37.
 1911 C, 14, 22, text-figs. 1, 2, 10, 11.
Schlosser, M. 1917 A, 139, 141.
Storms, R. 1891 A, 144.
Woodward, A. S. 1889 D, 325, fig. 12.
 1891 E, 65, pl. ii.
 1896 E, 70.
 1898 B, 46, fig. 36.
 1912 A, (1911), 216, pls. xlv, xlv.
 Zittel and Schlosser 1923 A, 62.

Synechodus clarkii Eastman.
Eastman, C. R. 1901 B, 103, pl. xiv, figs. 5a, 5b, 5c.
Clark and Miller 1912 A, 117, 118.
Leriche, M. 1902 A, 30 (S. clarki).
Miller, B. L. 1911 A, 103.
 1912 A, 2 (S. clarki).
Shattuck, Miller and Bibbins 1907 A, 5.
 Eocene (Aquia); Maryland.

Synechodus sp. indet.

Dumble, E. T. 1920 A, 175 (Synecodus).
 Eocene (Jackson); Texas.

EDESTOIDÆ, new name.

EDESTIDÆ Jaekel.

Jaekel, O. 1899 A, 298.
Abel, O. 1908 D, (208) ("edestiden").
 1912 F, 569 ("edestiden").
 1919 A, 136.
Eastman, C. R. 1900 F, 579.
 1917 A, 269.
Fuchs, T. 1900 A, 5 ("edestiden").
Goodrich, E. S. 1909 A, 147.
Gregory, W. K. 1907 D, 446.
Jaekel, O. 1900 A, 148 ("edestiden").
 1911 A, 56.
Jordan, D. S. 1923 A, 96.
Karpinsky, A. P. 1902 A, 205.
 1911 A, 1105 ("édestides").

Karpinsky, A. P. 1912 A, 69.
 1915 A, 123 ("édestides").
 1922 B, 379.
Klaatsch, H. 1901 A, 435 ("edestiden").
Pompeckj, J. F. 1913 A, 1126.
Sauvage, H. E. 1901 D, 69 ("edestiden").
Schlosser, M. 1917 A, 134 ("edestiden").
Stromer, E. 1905 A, 132 ("edestiden").
 1912 A, 22.
Woodward, A. S. 1902 E, 230 ("édestides").
 1924 A, 111, 112.
Zittel and Koken 1911 A, 58.
Zittel and Schlosser 1923 A, 63.

CAMPODUS Koninek. Type *C. agassizianus* Koninek.

Hay, O. P. 1902 A, 296.
Abel, O. 1912 F, 489, 567.
Barkas, W. J. 1874 D, 545 (Campodus); 547 (Lophodus).
Brongniart, C. 1888 C, 48.
Bronn, H. G. 1848 A, 208.
Eastman, C. R. 1901 A, 795.
 1902 B, 56, 57, 70; pls. 1-3.
 1902 E, 852.
 1902 F, 267.
 1902 H, 150, 151.
 1903 B, 184.
 1903 D, 285.
 1905 C, 405.
 1917 C, 214.
Eastman, Gregory and Matthew 1917 A, 117.
Hay, O. P. 1901 B, 67, 70.
 1909 C, 58.
 1912 A, 36.
Jordan, D. S. 1923 A, 95.
Karpinsky, A. P. 1903 A, 32, figs. 2-5.
 1922 B, 379.
 1925 A, 128.
Mudge, B. F. 1875 A, 122 (Agazodus).

Pompeckj, J. F. 1913 A, 1126.
Raymond, P. E. 1925 B, 554.
Stevenson, J. J. 1907 A, 168 (Lophodus).
Schlosser, M. 1917 A, 133.
Stromer, E. 1905 A, 133.
Van de Wiele, C. 1902 A, 246.
Woodward, A. S. 1917 F, 3, pl. 1, figs. 8-10.
 1921 B, 34.
 1924 A, 112.
Zittel and Koken 1911 A, 57.
Zittel and Schlosser 1923 A, 63.

Campodus basalis (Cope).

Hay, O. P. 1902 A, 296.
 Pennsylvanian; Illinois.

Campodus corrugatus (Newb. and Worth.).

Hay, O. P. 1902 A, 296.
Branson, E. B. 1916 A, 644, pl. iii, figs. 1-6.
Eastman, C. R. 1902 E, 853, 854; fig. 2.
Mason, S. C. 1883 A, 13 (Agassizodus).
 Pennsylvanian; Illinois, Kansas, Wyoming.

Campodus scitulus (St. John and Worth.).

Hay, O. P. 1902 A, 296.

Eastman, C. R. 1902 B, 97.

1902 G, 540.

1903 B, 194.

Pennsylvanian (Mazon Creek); Illinois.

Campodus variabilis (Newb. and Worth.).

Hay, O. P. 1902 A, 296.

Abel, O. 1912 F, 491, fig. 373.

Eastman, C. R. 1902 B, 57, pls. i-iii; text-fig. 2.

1902 D, 659.

1902 E, 854.

1903 B, 184, pl. i, fig. 1, pl. ii, figs. 15, 16; text-fig. 10.

1903 D, 283.

1905 C, 406.

Hussakof, L. 1908 A, 43.

Karpinsky, A. P. 1903 A, 33.

1922 B, 383.

Karpinsky, A. P. 1925 A, 128, figs. 1, 10, 12.

Pompeckj, J. F. 1913 A, 1126, fig. 28.

Raymond, P. E. 1925 B, 554.

Smith, G. L. 1915 A, 282 (Agassizodus).

Springer, F. 1924 A, 234 (Agassizodus).

Van de Wiele, C. 1902 A, 246.

Woodruff, E. G. 1906 A, 288, 290, pl. xviii, fig. 1.

Woodward, A. S. 1917 F, 4, figs. A, B.

1924 B, 342.

Zittel and Koken 1911 A, 57, figs. 97, 98.

Zittel and Schlosser 1923 A, 63, fig. 102.

Subcarboniferous; Belgium: Pennsylvanian (Missourian); West Virginia, Iowa, Kansas, Illinois, Iowa, Nebraska.

Campodus virginianus (St. John and Worth.).

Hay, O. P. 1902 A, 297.

Pennsylvanian; West Virginia.

Campodus sp. indet.

Branson, E. B. 1916 A, 645, pl. ii, figs. 21, 21a

Pennsylvanian (Embar); Wyoming.

SCOLIORHIZA Raymond. Type *S. kellyi* Raymond.

Raymond, P. E. 1925 B, 555.

Scoliorhiza kellyi Raymond.

Raymond, P. E. 1925 B, 555, fig. 2.

Triassic (Upper Banff); Alberta.

Scoliorhiza whitei (St. John and Worth.).

Hay, O. P. 1902 A, 296 (Orodus).

Raymond, P. E. 1925 B, 554, 555 (Orodus, Scoliorhiza).

Mississippian (Kinderhook); Iowa, Mississippian? (Upper Banff limestone); Alberta.

EDESTUS Leidy. Type *E. vorax* Leidy.

Hay, O. P. 1902 A, 337.

Abel, O. 1912 F, 567.

Barkas, W. J. 1874 D, 546 (Edestes).

Dean, B. 1912 A, 227.

Eastman, C. R. 1900 F, 580.

1901 A, 795.

1902 B, 55, 64, 70.

1902 D, 658.

1902 F, 267.

1902 H, 148, 151.

1903 B, 185.

1903 D, 281, 286.

1905 C, 405.

1912 C, 657.

1917 A, 269.

1917 C, 214.

Eastman, Gregory and Matthew 1917 A, 117.

Fuchs, T. 1900 A, 5.

Goodrich, E. S. 1909 A, 147.

Hay, O. P. 1907 A, 23.

1909 C, 43, 50, 57.

1912 A, 31.

Jaekel, O. 1901 A, 557 ("edestiden").

Jordan, D. S. 1905 A, i, 529.

1910 B, 186.

1919 B, 272.

1923 A, 96.

Karpinsky, A. P. 1902 A, 207.

1911 A, 1113.

1912 A, 72.

Karpinsky, A. P. 1915 A, 125.

1916 A, 701.

1922 B, 379.

1925 A, 128, fig. 7.

Kemna, A. 1902 A, 234.

Lydekker, R. 1910 F, 675.

1913 A, 24.

Missuna, A. 1908 A, 529.

Moodie, R. L. 1913 A, 188.

Newton, E. T. 1904 A, 1.

1917 A, 6.

Pompeckj, J. F. 1913 A, 1126.

Priem, F. 1900 B, 122.

Renevier, E. 1900 A, vi.

Sauvage, H. E. 1901 D, 69.

Van de Wiele, C. 1902 A, 244.

Woodward, A. S. 1890 F, 147.

1900 F, 34.

1902 E, 232.

1915 B, lxvi.

1917 F, 1, 6, pl. i.

1924 A, 110, fig. 3.

Zittel and Koken 1911 A, 58.

Zittel and Schlosser 1923 A, 63.

Edestus crenulatus Hay.

Hay, O. P. 1909 C, 43, pl. xii, figs. 1-3, text figs. 1, 2.

Abel, O. 1912 F, 567, fig. 439.

1920 A, 331, fig. 524.

- Hay, O. P. 1912 A, 35.
 Karpinsky, A. P. 1911 A, 1107.
 1912 A, 72.
 1922 B, 381, 384, figs. 6, 7.
 1925 A, 130, fig. 7.
 Pompeckj, J. F. 1913 A, 1127, fig. 29.
 Zittel and Koken 1911 A, 58, fig. 99.
 Zittel and Schlosser 1923 A, 64, fig. 103.
 Pennsylvanian; Illinois?

Edestus giganteus Newb.

- Hay, O. P. 1902 A, 337.
 Eastman, C. R. 1902 B, 72, fig. 6c.
 Hussakof, L. 1908 A, 46.
 Karpinsky, A. P. 1902 A, 207, fig. 5.
 1911 A, 1113.
 1912 A, 81.
 1916 A, 708.
 1925 A, 136.
 Newberry, J. S. 1889 A, 225, pl. xl.
 Priem, F. 1900 B, 121, fig. 2.
 Pennsylvanian; Illinois.

Edestus heinrichsii Newb. and Worth.

- Hay, O. P. 1902 A, 337.
 Eastman, C. R. 1902 B, 65, 66, 72; figs. 6a, 7
 (E. heinrichi).
 1902 D, 659 (E. heinrichi).
 1903 D, 288 (E. heinrichi).
 1905 C, 406 (E. heinrichi).
 1917 A, 269, pl. vi, fig. 1 (E. heinrichi).
 Hay, O. P. 1909 C, 43, pl. xiii, figs. 1, 2, 3
 (E. heinrichii).
 1912 A, 35, 37 (E. heinrichi).
 Hussakof, L. 1908 A, 47 (E. heinrichi).
 Jaekel, O. 1900 A, 145.
 Karpinsky, A. P. 1902 A, 206, fig. 4 (E. heinrichsi).
 1911 A, 1107 (E. heinrichi).
 1912 A, 72.
 1922 B, 380 (E. heinrichi).
 Misuna, A. 1908 A, 533, fig. 3 (E. heinrichi).
 St. John, O. 1902 A, 658 (E. heinrichi).
 Pennsylvanian; Illinois, Indiana, Iowa.

Toxoprion Hay. Type *Edestus lecontei* Dean.

- Hay, O. P. 1909 C, 56, 57.
 Abel, O. 1912 F, 567, 568.
 Eastman, C. R. 1903 D, 286 (Campyloprion).
 Hay, O. P. 1912 A, 31.
 Jordan, D. S. 1923 A, 96.
 Karpinsky, A. P. 1912 A, 86.
 1922 B, 385.
 Lydekker, R. 1910 F, 676.
 Pompeckj, J. F. 1913 A, 1126.
 Zittel and Schlosser 1923 A, 63.

Toxoprion lecontei Dean.

- Hay, O. P. 1902 A, 337 (Edestus).
 Eastman, C. R. 1900 F, 580 (Edestus).

CAMPYLOPRION Eastman. Type *C. annectans* Eastman.

- Eastman, C. R. 1902 H, 148, 151.
 Eastman, C. R. 1902 B, 56, 64, 70.
 1903 B, 185.
 1903 D, 283, 286.

Edestus minor Newb.

- Hay, O. P. 1902 A, 337.
 Eastman, C. R. 1902 B, 65, 66, 72.
 1902 D, 654, 659, fig. 3.
 1902 H, 148.
 1903 D, 288, pl. xxi, figs. 2, 3.
 Hay, O. P. 1909 C, 48, text-fig. 6.
 1912 A, 36.
 Hussakof, L. 1908 A, 47.
 Hussakof and Bryant 1919 A, 163.
 Karpinsky, A. P. 1902 A, 205, figs. 1, 2.
 1911 A, 1113.
 1912 A, 80.
 1922 B, 380, 384.
 Newton, E. T. 1904 A, 2, fig. 1.
 St. John, O. 1902 A, 658, fig. 3 (E. vorax).
 Woodward, A. S. 1917 F, 4, fig. D.
 Pennsylvanian; Indiana.

Edestus mirus Hay.

- Hay, O. P. 1912 A, 31, 36, pls. i, ii.
 Karpinsky, A. P. 1915 A, 124, fig. 2.
 1916 A, 707.
 1922 B, 386, fig. 11.
 Woodward, A. S. 1917 F, 3.
 1924 A, 111, fig. 4.
 Pennsylvanian; Iowa.

Edestus serratus Hay.

- Hay, O. P. 1909 C, 47, pl. xii, fig. 4, text
 figs. 3, 4.
 Karpinsky, A. P. 1911 A, 1114.
 1912 A, 82.
 Pennsylvanian; Illinois?

Edestus vorax Leidy.

- Hay, O. P. 1902 A, 337.
 Collett, J. 1872 A, 203.
 Eastman, C. R. 1902 B, 75, fig. 6b.
 1902 D, 659.
 Hay, O. P. 1912 A, 35.
 Karpinsky, A. P. 1902 A, 205.
 1912 A, 81.
 1916 A, 708.
 Pennsylvanian; Arkansas.

- Eastman, C. R. 1902 B, 65, 66 (Campyloprion).
 1903 D, 286 (Campyloprion).
 Hay, O. P. 1907 A, 23 (Edestus).
 1909 C, 52 (Edestus).
 Jaekel, O. 1900 A, 147 (Edestus).
 Karpinsky, A. 1902 A, 208, fig. 6 (Edestus
 lecontei).
 1912 A, 82, fig. 3 (Edestus).
 1915 A, 125 (Edestus).
 1922 B, 385.
 1925 A, 135.
 Sauvage, H. E. 1899 A, 4 (Edestus).
 Pennsylvanian; Nevada.

- Hay, O. P. 1907 A, 23.
 1909 C, 56.
 Jordan, D. S. 1905 A, i, 529.
 1923 A, 96.

Karpinsky, A. P. 1911 A, 1117.
1912 A, 86 (Syn. of *Helicoprion*).

***Campyloprion annectans* Eastman.**

Eastman, C. R. 1902 H, 151, pl. viii, fig. 2;
text-fig. 3.
1902 B, 65, 66, pl. iv, text-figs. 3, 4.

Eastman, C. R. 1903 D, 286, pl. xxi, fig. 1.
Hay, O. P. 1909 C, 56.

Karpinsky, A. P. 1912 A, 82.

Van de Wiele, C. 1902 A, 246.

North America; Locality and geological age
unknown.

HELICOPRIONIDÆ Karpinsky.

Karpinsky, A. P. 1911 A, 1113.

HELICOPRION Karpinsky. Type *H. bessonowi* Karpinsky.

Karpinsky, A. P. 1899 A.

Abel, O. 1904 B, 745.

1908 D, (208).

1912 F, 567, fig. 440.

1919 A, 139, fig. 102.

1920 A, 331, fig. 525.

Eastman, C. R. 1900 F, 580.

1901 A, 795.

1901 H, 151.

1902 B, 56.

1903 B, 185.

1903 D, 282, 286.

1905 C, 405.

1913 B, 677.

1917 B, 655.

Eastman, Gregory and Matthew 1917 A, 117.

Fuchs, H. 1900 A, 5.

Goodrich, E. S. 1909 A, 147, fig. 108.

Hay, O. P. 1907 A, 23.

1909 C, 50.

1912 A, 31.

Jaekel, O. 1900 A, 145.

Jordan, D. S. 1905 A, i, 529; ii, 574.

1920 B, 487.

1923 A, 96.

Karpinsky, A. P. 1902 A, 205, pl. C, text-figs.
7-9.

1911 A, 1105, figs. 1-5.

1912 A, 69, fig. 2.

1915 A, 117.

Karpinsky, A. P. 1916 A, 701.

1922 A, 369, figs. 1-3.

1922 B, 379.

1925 A, 127, figs. 5, 6.

Kemna, A. 1902 A, 233.

Klaatsch, H. 1901 A, 429.

Koken, E. 1901 A, 225, fig. 1.

Newton, E. T. 1917 A, 6.

Pompeckj, J. F. 1913 A, 1127, fig. 29.

Priem, F. 1900 B, 121, figs. 1, 3.

Renevier, E. 1900 A, vi.

Sauvage, H. E. 1901 D, 69.

Schlosser, M. 1917 A, 134.

Schoenichen, W. 1900 A, 503.

Simoens, G. 1902 A, 235, figs. 2, 3, 6.

Van den Broeck, E. 1902 A, 215.

Van de Wiele, C. 1902 A, 245.

Woodward, A. S. 1900 F, 33.

1902 A, 230.

1904 C, 189, fig. 3.

1915 B, lxvi.

1917 D, 6.

1921 B, 34.

1922 C, 68, fig. 65.

1924 A, 111, 112, fig. 4.

Zittel and Broili 1911 A, 59.

Zittel and Schlosser 1923 A, 63, fig. 104.

No species of this genus is yet known from
N. America.

LISSOPRION Hay. Type *L. ferrieri* Hay.

Hay, O. P. 1907 A, 23.

Abel, O. 1912 F, 567.

1919 A, 139.

Hay, O. P. 1909 C, 52, 57.

Jordan, D. S. 1923 A, 96.

Karpinsky, A. P. 1911 A, 1117.

1912 A, 92.

Lydekker, R. 1910 F, 676.

Pompeckj, J. F. 1913 A, 1126.

Zittel and Koken 1911 A, 59.

Zittel and Schlosser 1923 A, 64.

***Lissoprion ferrieri* Hay.**

Hay, O. P. 1907 A, 22, fig.

Abel, O. 1912 F, 568.

Hay, O. P. 1909 C, 52, pls. xiv, xv, text-fig. 7.

Hussakof, L. 1908 A, 49.

Karpinsky, A. P. 1911 A, 1118, figs. 5, 6.

1912 A, 82, figs. 4-6.

Lambe, L. M. 1917 E, 294.

Permo-carboniferous; Idaho.

***Lissoprion* sp. indet.**

Lambe, L. M. 1917 E (This genus?).

Upper Pennsylvanian (Banff); Alberta.

Superfamily HEXANCHOIDÆ, new form.

Hay, O. P. 1902 A, 300 (Hexanchoidea).

Arlt, T. 1923 A, 483 ("notidanoiden").

Fowler, H. W. 1911 A, 23 (Notidani).

Garman, S. 1913 A, 11 (Hexanchoidei).

Gill, T. 1882 A, 967 (Opistharthri).

Gill, T. 1885 A, lxiv (Opistharthri).

1905 A, 657 (Diplospondyli, Opistharthri).

Goodrich, E. S. 1909 A, 139 (Notidani).

Gregory, W. K. 1907 D, 440 (Diplospondyli).

Jaekel, O. 1911 A, 61 (Notidani).

- Pompeckj, J. F. 1913 A, 1124 (Notadanoidei).
 Jordan, D. S. 1905 A, i, 523; ii, 583 (Notidani).
 1907 B, 184 (Notidani).
 1923 A, 97 (Notidani, Opistharthri).
 Parker and Haswell 1897 A, 156 (Protosclachii).
 Regan, C. T. 1906 A, 722, 739 (Notidanoidei);
 740 (Hexanchoidae).
 Rauther, M. 1913 A, 1097 (Notidanoidei).
 Reynolds, S. H. 1897 A, 549 (Notidanidæ).
 Ridewood, W. G. 1921 A, 313, 315 (Notidanoidei).
 Stannius, H. 1854 A (Notidani).
 Van Wijhe, J. W. 1922 A, 291 (Notadanoidei).
 Versluys, J. 1922 B, 95 (Notidani).
 Zittel and Woodward 1902 A, 25 (Diplospondyli).

HEXANCHIDÆ Gill.

- Unless otherwise indicated, the authors, as cited, use for this family the name Notidanidæ.
 Hay, O. P. 1902 A, 300 (Hexanchidæ).
 Abel, O. 1919 A, 120.
 Allis, E. P. 1913 A, 323.
 1922 A, 152.
 1923 A, 47.
 1923 B, 167.
 Arltdt, T. 1907 D, 283.
 1923 A, 483 ("hexanchiden").
 Beer, G. R. 1926 A, 275 (Notidani).
 Bonaparte, C. L. 1840 A, 45 (Notidani).
 Braus, H. 1901 A, 180 ("notidaniden").
 1904 A, 414 ("notidaniden").
 1906 B, 557 ("notidaniden").
 Bridge, T. W. 1904 A, 442.
 Chapman, F. 1918 A, 4.
 Cope, E. D. 1891 N, 17 (Hexanchidæ).
 Cunningham, J. T. 1912 A, 246.
 Daniel, J. F. 1916 A, 349 ("notidanid sharks").
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 133 (Notidani).
 Filatoff, D. 1907 A, 309.
 Fitzinger, L. J. 1873 A, 56 (Notidani).
 Fowler, H. W. 1911 A, 23 (Hexanchidæ).
 Fuchs, H. 1907 C, 27 ("notidaniden").
 Fürbringer, K. 1903 A, 361.
 Garman, S. 1913 A, 2, 11 (Hexepranchidæ).
 Gaupp, E. 1898 B, 860 ("notidaniden").
 1905 D, 868 ("notidaniden").
 Gegenbaur, C. 1870 C, 402 ("notidaniden").
 Gill, T. 1905 A, 658 (Hexanchidæ).
 Goodey, T. 1910 A, 550, 560.
 Goodrich, E. S. 1909 A, 143.
 Haswell, W. A. 1884 A, 112.
 Hay, O. P. 1901 B, 67 (Hexanchidæ).
 Hilzheimer, M. 1913 A, 469.
 Hoernes, R. 1886 A, 541.
 Huber, O. 1901 A, 600.
 Koken, E. 1904 A, 305 ("notidaniden").
 Imms, A. D. 1905 A, 44.
 Jordan, D. S. 1905 A, i, 524; ii, 574 (Hexanchidæ).
 1907 B, 185, 758 (Hexanchidæ).
 1923 A, 97 (Hexanchidæ).
 Jordan and Gilbert 1882 A, 34, 62.
 Kingsley, J. S. 1885 A, 74 (Notidanidæ, Hexanchidæ).
 Krall, A. 1908 A, 529 (Hexanchidæ).
 Lakjer, T. 1927 A, 281.
 Lawley, R. 1877 A, 62 (Squalidi).
 Leigh-Sharpe, W. H. 1926 A, 338.
 Leunis and Ludwig 1883 A, 786.
 Mayer, P. 1886 A, 273, 274.
 Meek, A. 1916 A, 41 (Hexanchidæ).
 Osburn, R. C. 1907 A, 425.
 Parker and Haswell 1897 A, 156.
 Rauther, M. 1913 A, 1098.
 Regan, C. T. 1906 A, 722, 741 (Hexanchidæ).
 Ridewood, W. G. 1921 A, 313, 348, 394.
 Schlosser, M. 1917 A, 137, 139, 141, 145 ("notidaniden").
 Schmalhausen, J. J. 1913 A, 24.
 Sewertzoff, A. N. 1923 A, 399 ("notidaniden").
 1923 B.
 Stromer, E. 1912 A, 19.
 Tims, H. W. M. 1903 A, 133.
 Versluys, J. 1922 B, 100 (Notidani).
 Wallace, A. R. 1876 A, ii, 461.
 Woodward, A. S. 1921 B, 37.
 Zittel and Koken 1911 A, 49.
 Zittel and Schlosser 1923 A, 54.
 Zittel and Woodward 1902 A, 25.

HEPTRANCHIAS Rafinesque. Type *Squalus cinereus* Gmelin.

- Hay, O. P. 1902 A, 300.
 Allis, E. P. 1909 A, 202 (Heptanchus).
 1913 A, 325 (Hexanchus, Heptanchus).
 1914 A, 361 (Hexanchus, Heptanchus).
 1915 A (Hexanchus, Heptanchus).
 1919 C, 257 (Heptanchus).
 1922 B, 261 (Heptanchus).
 1923 A, 41 (Hexanchus, Heptanchus).
 1923 B (Hexanchus, Heptanchus).
 Ameghino, F. 1906 A, 186 (Notidanus).
 Anthony, R. 1913 A, 243 (Hexanchus).
 Baehr, W. B. 1906 A, 630 (Heptanchus, Hexanchus).
 Bardeleben, K. 1906 A, 138 (Hexanchus).
 Bassani, F. 1901 A, 175 (Notidanus).
 Bassani, F. 1891 A, 42 (Notidanus).
 1901 B, 175, pls. xxii-xxiv.
 Beer, G. R. 1926 A, 276 (Heptanchus).
 Braus, H. 1904 A, 393, 418, figs. 5, 10, 11, 13 (Heptanchus).
 1906 A, 225 (Heptanchus).
 1906 B, 545, fig. 1 (Heptanchus).
 1907 A, 249 (Hexanchus, Heptanchus).
 Bridge, T. W. 1904 A, 443, 748 (Notidanus).
 Briquel, P. 1898 A, 13 (Heptanchus).
 Bronn, H. G. 1848 B, 817 (Notidanus).
 1849 A, 641 (Notidanus).
 Carter, J. T. 1905 A, 133 (Heptanchus).
 Chapman, F. 1918 A, 4 (Notidanus).
 Collinge, W. E. 1894 A, 503 (Heptanchus).

- Cope, E. D. 1891 N, 16, fig. 7 (Hexanchus).
 Daniel, J. F. 1916 A, 349, pls. xxvii-xxix, text-figs. A-H (Heptanchus).
 1922 A, many figures (Hexanchus, Heptanchus).
 Davidoff, M. 1879 A (Heptanchus).
 Dohrn, A. 1884 A, 142 (Hexanchus).
 Drüner, L. 1906 A, 7 (Heptanchus).
 Duméril, A. 1856 A, 123 ("griset").
 Eastman, C. R. 1904 H, 77.
 Edgeworth, F. H. 1925 A, 234.
 1926 A, 177, 189, fig. 3 (Heptanchus, Hexanchus).
 Eimer, G. H. T. 1901 A, 254 (Heptanchus).
 Fahrenheit, C. 1915 A, 396, figs. 1-3 (Heptanchus).
 Fowler, H. W. 1911 A, 24.
 Frassetto, E. 1915 A, 45, figs. 26, 58 (Eptanchus).
 Fürbringer, K. 1903 A, 361 (Heptanchus, Hexanchus).
 1904 B, 465, figs. 11, 14, 15 (Heptanchus).
 Garman, S. 1913 A, 21.
 Gaupp, E. 1898 B, 811, 857 (Hexanchus, Heptanchus).
 1905 D, 877, fig. 4 (Hexanchus, Heptanchus).
 1913 A, 8, fig. 1 (Heptanchus).
 Gegenbaur, C. 1870 C, 402 (Heptanchus).
 1871 B, 497, pl. xiii (Hexanchus).
 Gibian, A. 1912 A, 61 (Heptanchus).
 Giebel, C. G. 1855 A, 115 (Notidanus).
 Goodey, T. 1910 A, 545 (Heptanchus).
 Goodrich, E. S. 1901 A, 312, fig. A (Heptanchus).
 1909 A, 511, figs. (Heptanchus, Hexanchus, Notidanus).
 Gregory, W. K. 1904 A, 55 (Notidanus); 64, pl. i, fig. 4 (Heptanchus).
 Hanson, F. B. 1919 B, 45, fig. 1 (Hexanchus).
 Haswell, W. A. 1885 B, 381, pl. x (Heptanchus).
 Hawkes, O. A. M. 1905 A, 81 (Heptanchus, Hexanchus).
 Hay, O. P. 1901 B, 67 (Hexanchus).
 Heilprin, A. 1887 A, 297, 300 (Notidanus).
 Hoffman, L. 1912 A, 280 (Hexanchus, Heptanchus).
 Huber, O. 1901 A, 600, pl. xxvii (Hexanchus).
 Huxley, T. H. 1876 E, 105 (Hexanchus, Heptanchus, Notidanus).
 Imms, A. D. 1905 A, 44 (Heptanchus).
 Jaekel, O. 1906 A, 9, fig. 1 (Heptanchus).
 1911 A, 62, figs. 64-66 (Notorhynchus).
 Jordan, D. S. 1905 A, I, 542; II, 574 (Heptanchias, Hexanchus).
 1907 B, 185 (Heptanchias, Hexanchus).
 1910 B, 181.
 1917 A, 78.
 1923 A, 97 (Hexanchus, Heptanchias, Heptanchus).
 Jordan and Evermann 1917 A, 78 (Heptanchias, Hexanchus).
 Jordan and Gilbert 1882 A, 34, 62.
 Jordan and Hannibal 1923 A, 32 (Heptanchias, Hexanchus, Notorhynchus).
 Kiaer, J. 1924 A, 89 (Hexanchus, Heptanchus).
 Kingsbury, B. F. 1926 A, 85, 105 (Heptanchus, Hexanchus).
 Kingsley, J. S. 1894 A, 637 (Hexanchus).
 Kingsley, J. S. 1896 A, 142 (Heptanchus).
 1912 B, 65, fig. 64 (Heptanchias).
 1925 A, 65, 87, 234, figs. 69, 90, 238, 247 (Heptanchus); 221 (Hexanchus).
 Klaatsch, H. 1890 A, 110 (Hexanchus).
 Krall, A. 108 A, 529 (Heptanchus, Hexanchus).
 Lahille, F. 1913 A, 25, pls. viii, ix, text-figs. 1-3.
 Lakjer, T. 1927 A, 278 (Notidanus).
 Lawley, R. 1875 B, 57-76, pls. i-iv.
 Leigh-Sharpe, W. H. 1926 A, 338 (Notidanus, Hexanchus).
 Leriche, M. 1902 B, 101 (Notidanus).
 1905 A, 110.
 1906 C, 418 (Notidanus).
 1910 D, 254, fig. 70 (Notidanus).
 Leunis and Ludwig 1883 A, 786 (Notidanus).
 Leydig, F. 1852 A, 1.
 Luther, A. 1909 A, 10, fig. 6 (Heptanchus).
 Miklouho-Maclay, N. 1879 A, 321 (Notidanus).
 Miner, R. W. 1925 A, 195 (Hexanchus, Heptanchus).
 Mivart, St. G. 1878 B, 311, 331 (Notidanus).
 Müller and Henle 1837 A, 398 (Hexanchus, Heptanchus).
 1838 A, 88 (Notidanus).
 Norman, E. W. 1926 A, 441, fig. 55 (Heptanchus).
 Osburn, R. C. 1907 A, 421 (Heptanchus).
 1907 B, 182 (Notidanus).
 Owen, R. 1845 B, 29 (Notidanus).
 1848 B, 96 (Heptanchus).
 1866 A, 37 (Heptanchus).
 Parker and Bettany 1877 A, 89 (Notidanus).
 Parker and Haswell 1897 A, 161, fig. 789 (Hexanchus).
 Pompeckj, J. F. 1913 A, 1124 (Heptanchus, Hexanchus).
 Priem, F. 1908 B, 25, 94 (Notidanus).
 Probst, J. 1886 B, 303 (Hexanchus, Heptanchus).
 Rabinerson, A. 1925 A, 560, fig. 1 (Heptanchus).
 Rabl, C. 1892 A, 106 (Hexanchus).
 1901 A, 477, figs. 4, 17 (Heptanchus).
 Rauther, M. 1913 A, 1063, figs. 7, 11 (Heptanchus).
 Regan, C. T. 1906 A, 722 (Hexanchus, Heptanchias).
 Reis, O. M. 1893 A, 501 (Notidanus).
 Reynolds, S. H. 1897 A, 31, 63, 114, 121, fig. 17 (Heptanchus); 31, 63, 121 (Hexanchus).
 Ridewood, W. G. 1895 B, 429 (Notidanus).
 1896 A, 382, fig. 3 (Notidanus).
 1899 A, 49 (Heptanchus).
 1921 A, 326, 348, 394, figs. 5, 6 (Hexanchus).
 Roth, W. 1911 A, 531 (Hexanchus, Heptanchus).
 Sagemehl, M. 1884 A, 100 (Heptanchus).
 Sauvage, E. 1867 A, 118 (Notidanus).
 Schmalhausen, J. J. 1912 A, 580 (Heptanchus).
 Secerov, S. 1911 A, 8, pl. i (Heptanchus).
 Semon, R. 1901 B, 132 (Heptanchus).
 Sewertzoff, A. N. 1923 B, fig. 2 (Heptanchus, Hexanchus).
 1926 B, 577 (Heptanchus).
 Smith, H. M. 1916 A, 349, fig. (Hexanchus).
 Steinhard, O. 1903 A, 6 (Heptanchus).
 Stensiö, E. A. 1925 A, 70, 127 (Heptanchus).
 1925 B, 140 (Heptanchus).

- Stromer, E. 1925 A, 19 (Hexanchus, Heptanchus).
 VanWijhe, J. W. 1905 B, 320 (Heptanchus).
 Versluys, J. 1922 B, figs. 1, 4, 5, 7 (Heptranchus, Hexanchus).
 White, P. J. 1895 B, 222, figs. 1, 2.
 1905 A, 320 (Heptanchus).
 Winkler, T. C. 1876 A, 12 (Notidanus).
 Woodward, A. S. 1889 I, 6 (Notidanus).
 1891 E, 65 (Notidanus).
 1912 A (1911), 222 (Notidanus).
 1915 B, lxix.
 1921 A, 179 (Notidanus).
 Zittel and Koken 1911 A, 49 (Notidanus).
 Zittel and Schlosser 1923 A, 54, figs. 29, 59, 73, 74 (Notidanus).
 Zittel and Woodward 1902 A, 25 (Notidanus).

NOTIDANION Jordan and Hannibal. Type *Notidanus primigenius* Agassiz.

- Jordan and Hannibal* in Jordan, D. S. 1923 A, 97.
Jordan and Hannibal 1923 A, 34.

Notidanion boreale Jordan and Hannibal.

- Jordan and Hannibal* 1923 A, 34, 61, pl. ii, fig. g.
 Oligocene (San Lorenzo); Washington.

Notidanion primigenium (Agassiz).

- Hay, O. P. 1902 A, 300 (Heptranchius? primigenius, H?. plectrodon).
 Bassani, F. 1891 A, 43, pl. ii, figs. 21, 22 (Notidanus).
 1901 A, 178 (Notidanus).
 Chapman, F. 1918 A, 5, pl. vi, fig. 6 (Notidanus).
 Eastman, C. R. 1904 H, 77, pl. xxix, fig. 6 (Notidanus, N. plectrodon a syn.).
 Fowler, H. W. 1911 A, 24, fig. 1 (Heptranchias).
 Gervais, P. 1852 A, explan. pl. lxxiv (Notidanus).

Heptranchias andersoni Jordan.

- Jordan, D. S.* 1907 A, 101, fig. 3.
 Anderson, F. M. 1911 A, 101.
Jordan, D. S. 1907 A, 102, 119, fig. 4d (Chiloscyllium sp.).
 1910 B, 181.
Jordan and Beal 1913 A, 246 (H. andersoni); 246, 253, fig. b (Squatina lerichiei).
Jordan and Gilbert 1919 A, 23 (Squatina lerichiei).
Jordan and Hannibal 1923 A, 34, 62, pl. ii, figs. x-z; dd, ee.
 Leriche, M. 1908 C, 303 (Notidanus primigenius); 305 ("Squatina").
 Miocene; California.

- Gervais, P. 1859 A, 520, pl. lxxiv, figs. 9, 10 (Notidanus).
 Jaekel, O. 1895 E, 33, pl. ii, fig. 22 (Notidanus).
Jordan, D. S. 1910 B, 181 (Notidanus).
 1923 A, 97 ("Notidanion").
Jordan and Hannibal 1923 A, 36.
 Lawley, R. 1875 B, 66, pl. i, figs. 1, 5 (Notidanus).
 Leriche M. 1905 A, 207, fig. 62 (Notidanus).
 1906 A, 296 (Notidanus).
 1906 B, 352 (Notidanus).
 1906 C, 420, fig. 71 (Notidanus).
 1910 D, 257, pl. xiii, text-figs. 71, 72.
 Priem, F. 1906 A, 196, pl. viii, figs. 1, 2 (Notidanus).
 1912 A, 217, 225, pl. vi, fig. 34, text-figs. 17-19 (Notidanus).
 1914 A, 121, pl. iii, fig. 11 (Notidanus).
 Shattuck, G. B. 1904 A, xcvi (Heptranchias).
 Woodward, A. S. 1889 I, 6 (Notidanus).
 Zierler, F. E. 1905 A, 511 (Heptranchias).
 Miocene; New Jersey: Miocene (Calvert); Maryland: Eocene?; New Jersey: Upper Eocene and Miocene; Europe.

GYROPLEURODUS Gill. Type *Cestracion francisci* Girard.

- Gill, T.* 1862, Proc. Acad. Nat. Sci. Phila., 469.
Jordan, D. S. 1919 B, 317.
Jordan and Evermann 1896 A, 20.
Jordan and Gilbert 1882 A, 32 (Gyropleurodus); 875 (Heterodontus).
Jordan and Hannibal 1923 A, 32.
 Regan, C. T. 1908 D, 494.

Gyropleurodus francisci (Girard).

- Girard, C. F.* 1854, Proc. Acad. Nat. Sci. Phila., 196 (Cestracion).

- Gill, T.* 1862, Proc. Acad. Nat. Sci. Phila., 492.
 Günther, A. C. 1870 A, 416 (Cestracion).
Jordan and Evermann 1896 A, 20.
Jordan and Gilbert 1883 A, 31.
Jordan and Hannibal 1923 A, 32, pl. iv, fig. j.
 Miklouho-Maclay and Macleay 1879 A, p. 315, pl. xxvi (Heterodontus).
 Recent; Coast of California: Pleistocene or Recent?; California.

STRONGYLISCUS Jordan. Type *S. robustus* Jordan.

- Jordan, D. S.* 1925 B, 7.

Strongyliscus robustus Jordan.

- Jordan, D. S.* 1925 B, 7, pl. iv.
 Miocene (Monterey); California.

LAMNOIDÆ, new form.

- Hay, O. P. 1902 A, 301 (Galeoidea, in part).
 Garman, S. 1913 A, 10 (Carcharoidei, Isuroidei).
 Gill, T. 1873 F, 12 (Lamnoidea).

- Jordan, D. S.* 1923 A, 99 (Lamnoidei).
 Regan, C. T. 1906 A, 723 (Galeoidei, in part)

CARCHARIIDÆ Jordan and Gilbert.

- Jordan and Gilbert* 1882 A, 27 (Carchariidæ); 62 (Odontaspididæ).
Hay, O. P. 1902 A, 301 (Carchariinæ).
Allis, E. P. 1923 B, 144.
 1926 B, 338.
Arlt, T. 1923 A, 484 ("odontaspiden").
Garman, S. 1913 A, 23 (Carcharidæ).
Gill, T. 1872 C, 24 (Odontaspididæ).
 1905 A, 658 (Odontaspididæ, Carchariidæ).
Gregory, W. K. 1907 D, 447.
Hussakof, L. 1909 A, 262 (Odontaspididæ).
Jordan, D. S. 1905 A, i, 534 (Odontaspididæ).
 1907 B, 191, 758 (Odontaspididæ).
 1923 A, 99 (Carchariidae, Odontaspidæ).
Jordan and Hannibal 1923 A, 45.
Leigh-Sharpe, W. H. 1926 A, 315, 339.
Radcliffe L. 1916 A, 243, 244.
Regan, C. T. 1906 A, 723, 741, 744 (Odontaspididæ).
Ridewood, W. G. 1921 A, 351, 355, 395 (Odontaspididæ).

ODONTASPIS Agassiz. Type *O. ferox* Agassiz.

- Hay, O. P.* 1902 A, 301 (Carcharias).
Abel, O. 1919 A, 121, 123, figs. 79, 82.
Agassiz, L. 1874 A, 130.
Ameghino, F. 1906 A, 186.
Braus H. 1901 B, 191.
Bridge, T. W. 1904 A, 451.
Bronn, H. G. 1848 A, 218 (Carcharias).
 1848 B, 835.
 1849 A, 642; 645 (Carcharias).
Chapman, F. 1918 A, 10.
Coulon, L. 1903 A 124.
Cunningham, J. T. 1897 A, 496 (Carcharias).
Daniel, J. F. 1922 A, figs. 14, 127.
Deinse, A. B. 1916 A, 448.
Dollo, L. 1904 C, 48.
Duméril A. 1856 A, 132.
Eastman C. R. 1902 B, 56 (Carcharias).
 1904 H, 78, 79.
Fürbringer, K. 1903 A, 399.
Garman, S. 1913 A, 3, 23 (Carcharias).
Gaupp, E. 1898 B, 816, 862 (Carcharias).
 1905 D, 874.
Gibian A. 1912 A, 61.
Giebel, C. G. 1855 A, 116.
Gill, T. 1905 A, 658.
Hussakof, L. 1909 A, 259 (Carcharias).
Ishiwara, Y. 1921 A, 69, 74 (Carcharias).
Jacobshagen, E. 1920 A, 92 (Carcharias).
 1923 A, 176 (Carcharias).
Jaekel, O. 1895 E, 29.
Jordan, D. S. 1905 A, ii, 534.
 1907 B, 191, 199.
 1919 B, 184 (Odontaspis a syn.).
 1923 A, 99, 100 (Carcharias).
 1928 A, 1 (Carcharias).
Jordan and Beal 1913 A, 249 (Carcharias).
Jordan and Evermann 1917 A, 77, 97 (Carcharias).
Jordan and Gilbert 1882 A, 27 (Carcharias).
Jordan and Hannibal 1923 A, 45.
Leigh-Sharpe, W. H. 1926 A, 340.
Leriche, M. 1905 A, 115.
Meek, A. 1916 A, 38 (Carcharias).
Owen, R. 1845 B, 28.
Priem, F. 1907 B, 413.
 1908 B, 77, 95, 122, fig. 60.
Radcliffe, L. 1916 A, 243, fig. 1 (Carcharias).
Regan, C. T. 1906 A, 723.
Reynolds, S. H. 1897 A, 107, fig. 14.
Roth, W. 1911 A, 540, pls. vi, viii.
Schlesinger, G. 1909 A, 142 (Carcharias).
Schmalhausen, J. J. 1913 A, 21 (Carcharias).
Stefano, G. 1912 A, 378.
Stromer, E. 1905 C, 169.
Weiler, W. 1922 A, 88.
Woodward, A. S. 1889 I, 7.
 1898 B, 48.
Zittel and Koken 1911 A, 52.
Zittel and Schlosser 1923 A, 57.
Odontaspis clavata (Agassiz).
Hay, O. P. 1902 A, 302 (Lamna).
Anderson, F. M. 1911 A, 101 (Lamna).
Blake, W. P. 1857 A, 172 (Lamna).
 1866 A, 290 (Lamna).
Jordan, D. S. 1907 A, 106, fig. 8 (Lamna).
 1910 B, 181 (Lamna).
Jordan and Beal 1913 A, 245, 249 (Carcharias).
Jordan and Gilbert 1919 A, 21 (Carcharias).
Jordan and Hannibal 1923 A, 46, 62, pl. ii, figs. a, h. (Carcharias).
Leriche, M. 1908 C, 303 (*O. cuspidata*).
 Miocene (Monterey); California.
Odontaspis contortidens (Agassiz).
Agassiz, L. 1843 B, 294, pl. xxxvii, figs. 17-23 (Lamna contortidens); figs. 33, 34 (*L. acutissima*).
Hay, O. P. 1902 A, 301 (Carcharias).
Agassiz, L. 1854 A, 4 (Lamna, Odontaspis).
Chapman, F. 1918 A, 11, 31, text-fig. 1 (Carcharias).
Coulon, L. 1903 A, 125.
Jaekel, O. 1895 E, 31, pl. ii, figs. 11-18 (Carcharias).
Leriche, M. 1900 A, 192.
 1906 C, 413.
 1907 B, 341 (*O. acutissima*).
 1910 D, 261, pl. xiv, figs. 1-27, text-figs. 73-76 (*O. acutissima*).
Newton, E. T. 1891 A, 107, pl. ix, figs. 17a, 17b (Carcharias).
Priem, F. 1912 A, 214, 218, 226, 238, pl. iv, figs. 18-25.
Stefano, G. 1901 A, 556, pl. x, figs. 9-12 (Carcharias).
 1912 A, 389 (Carcharias).
 Eocene to Pliocene; Europe: Eocene?; Alabama, South Carolina.
Odontaspis cuspidata (Agassiz).
Hay, O. P. 1902 A, 302 (Lamna).
Ameghino, F. 1906 A, 177, 259; pl. i, fig. 9.
 1908 B, 492.

- Bassani, F. 1891 A, 25, pl. i, fig. 14; pl. ii, figs. 10, 13, 16, 17.
- Berry, E. W. 1916 A, 351, pl. viii, figs. 8, 9 (Lamna).
- Chapman, F. 1918 A, 12.
- Clark and Miller 1912 A, 117, 118.
- Coulon, L. 1903 A, 122 (Carcharias).
- Dall, W. H. 1894 A, 297 (Lamna).
- Eastman, C. R. 1901 B, 105; pl. xiv, figs. 1a, 1b, 6a, 6b.
1904 H, 78; pl. xxx, fig. 1.
- Fowler, H. W. 1911 A, 43; figs. 12-15 (Lamna).
- Hay, O. P. 1922 B, 3 (Lamna).
- Ishiwara, Y. 1921 A, 70, pl. xii, figs. 12-21 (Carcharias).
- Jordan, D. S. 1910 B, 181 (Carcharias).
- Jordan and Beal 1913 A, 249.
- Leriche, M. 1902 A, 22.
1906 C, 413 (Lamna, *Odontaspis*).
1910 B, 328, pl. iii, figs. 9-12.
1910 D, 268, pl. xv, figs. 1-21.
1913 A, 83.
1926 A, 15.
- Lyell, C. 1845 C, 549, 560 (Lamna).
- Priem, F. 1908 B, 78.
1911 B, 330, 336.
1912 A, 214, 217, 226, 237; pl. vi, figs. 10-17.
- Sellards, E. H. pl. vii, figs. 1-5, 7, 9 ("shark").
- Shattuck, G. B. 1904 A, xevi (Carcharias).
- Stanton, T. W. 1920 A, 49, pl. ix, figs. 12, 13 (Lamna).
- Stefano, G. 1912 A, 389, pls. xiii, xiv.
1912 B, 46, pls. i, ii.
- Stromer, E. 1905 C, 171, 178; pl. xv, figs. 26, 27.
- Weiler, W. 1922 A, 88, 104.
- Woodward, A. S. 1889 I, 7, figs. 12-14.
- Zittel and Schlosser 1923 A, 57, fig. 85 (Lamna).
Upper Cretaceous (Manasquan, etc.); New Jersey: (Lance); South Dakota: (Matawan, Monmouth); Maryland: Eocene, New Jersey: Eocene (Nanjemoy, Acqua); Maryland; Miocene (Calvert); Maryland: Miocene (Kirkwood); New Jersey: Miocene (Chesapeake); Massachusetts: Eocene, Miocene; Europe.
- Odontaspis cuspidata hopei* (Agassiz).**
Hay, O. P. 1902 A, 302 (Lamna *cuspidata*, part).
Coulon, L. 1903 A, 123 (Lamna *hopei*).
Leriche, M. 1900 A, 192.
1905 A, 75, 119, 187, 208, 215.
1906 B, 350, 351, 352, 355.
1906 C, 416 (O. *hopei*).
1907 A, 354, pl. iii, fig. 4.
1908 A, 238, pl. iv, figs. 1-12.
Priem, F. 1906 A, 197; pl. viii, figs. 3-10.
Stefano, G. 1912 A, 384, pls. xii, xiv.
1912 B, 45, pls. i, ii.
Stromer, E. 1905 C, 171, 178 (O. *hopei*).
Woodward, A. S. 1889 I, 7 (This species?).
Eocene; Europe, Georgia, Alabama, Virginia, Kansas, S. Carolina: Miocene; Maryland, N. Carolina.
- Odontaspis duplex* Agassiz.**
Hay, O. P. 1902 A, 302 (Carcharias).
Tertiary of Alabama?
- Odontaspis elegans* (Agassiz).**
Hay, O. P. 1902 A, 303 (Lamna).
Ameghino, F. 1906 A, 185, 259, 463.
Berry, E. W. 1916 A, 350, pl. viii, figs. 5-7 (Lamna).
Chapman, F. 1918 A, 11, pl. iii, fig. 1.
Clark and Miller 1912 A, 117, 118 (Carcharias).
Coulon, L. 1903 A, 123 (Lamna).
Eastman, C. R. 1901 B, 104; pl. xiv, figs. 2a, 2b, 2c, 3a, 3b, 3c.
1904 H, 79; pl. xxx, figs. 2, 3.
Fowler, H. W. 1911 A, 48; figs. 16, 17 (Lamna).
Gervais, P. 1852 A, explan. pl. lxxv, fig. 3 (Lamna).
1859 A, 520, pl. lxxv, fig. 3 (Lamna).
Giebel, C. G. 1855 A, 116, pl. xlvii, fig. 16 (Lamna).
Hopkins, F. V. 1871 A, 13 (Lamna).
Humphreys, J. 1908 A, 14, pl. i, fig. 2.
Jordan and Hannibal 1923 A, 46.
Leriche, M. 1900 A, 191.
1902 A, 21 (= *Otodus macrotus*).
1906 C, 414.
Mantell, G. A. 1844 A, 624, fig. 130 (Lamna).
Miller, B. L. 1911 A, 103.
1912 A, 2.
Newton, E. T. 1891 A, 107, pl. ix, figs. 16a, 16b.
Priem, F. 1896 B, 13 (Lamna).
1901 A, 483, pl. xi, figs. 27, 28.
1908 B, 78.
Ridewood, W. G. 1896 A, 382, fig. 4.
Rutot, A. 1875 A, 34 (Lamna).
Shattuck, G. B. 1904 A, xevi.
Shattuck, Miller, and Bibbins 1907 A, 5.
Stromer, E. 1905 C, 170 (Lamna).
Winckler, T. C. 1876 A, 9 (Lamna).
Woodward, A. S. 1889 I, 8, pl. i, figs. 15-17.
Upper Cretaceous (Matawan, Monmouth); New Jersey; Eocene; Louisiana; Eocene (Aquia); Virginia, Maryland: Miocene; New Jersey: Miocene (Calvert); Maryland.
- Odontaspis littoralis* (Mitchill).**
Mitchill, S. L. 1818, Amer. Monthly Mag., ii, 328 (Squalus).
Jordan and Evermann 1896 A, 46 (Carcharias).
Jordan and Gilbert 1882 A, 874.
Leriche, M. 1906 C, 207 (*Odontaspis americanus*).
Mitchill, S. L. 1815 A, 483 (Squalus *americanus*; not of Shaw).
Said by Mitchill (op. cit., 1818) to be met with in digging wells in Richmond and as far up as Alexandria, Virginia.
- Odontaspis lomitæ* (Jordan and Hannibal).**
Jordan and Hannibal 1923 A, 48, 63, pl. vi, figs. i, c (Carcharias).
Hay, O. P. 1927 D, 174 (Carcharias).
Pliocene or Pleistocene (Lomita); California.
- Odontaspis macrota* (Agassiz).**
Hay, O. P. 1902 A, 305 (Otodus).
Chapman, F. 1918 A, 15, pl. iii, figs. 8, 9; pl. ix, figs. 6, 7 (Lamna *compressa*).

- Dollo, L. 1914 A, 290.
 Eastman C. R. 1901 B, 105, pl. xiv, figs. 4a, 4b.
 Leriche, M. 1901 A, 156, pl. v, figs. 13-15.
 1902 A, 11, 19.
 1905 A, 75, 120, 187, 200, 208, 215.
 1906 B, 350, 355.
 1906 C, 417 (*Odontaspis*); 418 (*Otodus*).
 1908 A, 242.
 1913 A, 78, pl. x, fig. 2.
 1926 A, 15.
 Priem, F. 1906 A, 198 (*Lamna*).
 1908 B, 79, pl. iv, fig. 7 (*Lamna*).
 Stefano, G. 1912 A, 376, pls. xiii, xiv (*Lamna*.
 This species?).
 Stromer, E. 1903 A, 32, pl. i, fig. 8 (*Lamna*).
 1905 C, 171 (*Lamna*).
 Winckler, T. C. 1876 A, 9.
 Woodward, A. S. 1889 I, 8, pl. i, figs. 19, 20
 (*Lamna*).
 Eocene (Nanjimoy and Aquia); Maryland:
 (Nanjimoy); Virginia: Europe.
- Odontaspis morricei* (Jordan and Beal).**
Jordan and Beal 1913 A, 245, 249, fig. c. (*Carcharias*).
Jordan and Gilbert 1919 A, 21 (*Carcharias*).
Jordan and Hannibal 1923 A, 43, 62, pl. ii, fig.
 t; pl. iv, figs. a, b, e; pl. vi, fig. h (*Xiphodolamia*).
 Miocene (Monterey); California.
- Odontaspis sanctæ-crucis* (Jordan and Hannibal).**
Jordan and Hannibal 1923 A, 48, 62, pl. iii, figs.
 d, k (*Carcharias*?).
 Miocene (Monterey); California.
- Odontaspis verticalis* (Agassiz).**
 Hay, O. P. 1902 A, 302 (*Carcharias*).
 Coulon, L. 1903 A, 122 (*Lamna*).
 Leriche, M. 1900 A, 192.
 1902 A, 33 (*Lamna*).
 1905 A, 75, 121, 188, 200, pl. vi, figs. 20-35
 (*Lamna*).
 1906 B, 350, 352, 355.
 1906 C, 423, pl. ix, figs. 20-35 (*Lamna*).
 1908 A, 238 (*Lamna*, *Odontaspis*).
 Priem, F. 1908 B, 79 (*Lamna*).
 Stromer, E. 1903 A, 31, pl. i, figs. 10, 11
 (*Odontaspis*).
 Eocene; Europe, Egypt: Eocene; South
 Carolina, Alabama.
- Odontaspis virgatula* (Jordan and Hannibal).**
Jordan and Hannibal 1923 A, 46, 63, pl. iii, figs.
 t, u (*Carcharias*).
 Hay, O. P. 1927 D, 174 (*Carcharias*).
 Pliocene or Pleistocene (Lomita); California.
- Odontaspis* sp. indet.**
 Dumble, E. T. 1920 A, 175 (*Odontaspis*). Eo-
 cene (Jackson); Texas.
 Gidley, J. W. 1927 E, 274 (*Carcharias*).
 Pleistocene; Florida.
 Hay, O. P. 1927 D, 274 (*Carcharias*). Pleisto-
 cene; Florida.
 Jordan, D. S. 1907 A, 104, fig. 5 (*Carcharias*).
 Miocene; California.
 Sellards, E. H. 1915 D, 98, fig. 26 (*Carcharias*).
 Pliocene (Bone Valley); Florida.

MITSUKURINIDÆ Jordan.

- Jordan, D. S.* 1898, Proc. Calif. Acad. Sci. (3), No. 6, 201.
- Jordan, D. S.* 1923 A, 99.

SCAPANORHYNCHUS A. S. Woodward. Type *S. lewisii* Davis.

- Woodward, A. S.* 1889 D, 351 (To replace
Rhinognathus Davis, preoccupied).
Ameghino, F. 1906 A, 186.
Arlt, T. 1923 A, 484.
Chapman, F. 1918 A, 8.
Garman, S. 1913 A, 23, 28.
Hussakof, L. 1909 A, 257.
Jordan, D. S. 1898, Proc. Calif. Acad. Sci. (3),
 Zool. vol. i, No. 6 (*Mitsukurina*).
 1920 C, 449.
 1923 A, 99.
Leriche, M. 1902 A, 11.
 1902 B, 103.
 1906 C, 421.
Priem, F. 1896 B, 13, pl. ii, figs. 1-6.
 1908 B, 39, fig. 15.
Ridewood, W. G. 1921 A, 359, fig. 12.
Woodward, A. S. 1889 D, 351.
 1899 E, 487.
 1912 A (1911) 210.
 1921 A, 180.
Zittel and Schlosser 1923 A, 57 (*Mitsukurina*
 a syn.).
- Scapanorhynchus raphiodon* (Agassiz).**
 Hay, O. P. 1902 A, 303 (*Lamna*).
 Chapman, F. 1918 A, 10, pl. iii, figs. 2, 16.
 Coulon, L. 1903 A, 124 (*Odontaspis*).
 Fritsch, A. 1878 A, 10, text-fig. 17 (*Lamna*).
 Hennig, E. 1914 A, 308, pl. xxiii, fig. 7 (*S.*
raphiodon).
Leriche, M. 1902 B, 106, pl. iii, figs. 8-13.
 1906 C, 421.
Priem, F. 1896 B, 15, pl. ii, figs. 1-6.
 1907 A, 463.
 1912 B, 258, 267.
 1913 A, 160.
 1914 C, 366, pl. x, figs. 8-10.
Sauvage, E. 1867 A, 122 (*Lamna*).
Tanner, V. M. 1925 A, 6, pl. i, figs. 1, 2.
Woodward, A. S. 1889 D, 353.
 1912 A (1911), 211, pl. xlv, figs. 14-17.
 Cretaceous; Europe, India: Tertiary of Ala-
 bama?

Scapanorhynchus subulatus (Agassiz).

- Hay, O. P. 1902 A, 303 (Lamna).
 Ameghino, F. 1906 A, 177, pl. i, fig. 7.
 1908 B, 487.
 Chapman, F. 1918 A, 8, 31, pl. iii, fig. 13; pl.
 v, figs. 6-10.
 Coulon, L. 1903 A, 125 (Odontaspis).
 Fritsch, A. 1878 A, 9, text-figs. 15, 16 (Lamna).

Leriche, M. 1902 B, 107, pl. iii, figs. 5-7.
 1906 C, 422.

Priem, F. 1896 B, 15, pl. ii, figs. 7-10.
 1907 A, 463, 464.
 1912 B, 258, 267.
 1913 A, 160.

Woodward, A. S. 1889 D, 386 (This genus?).
 1912 A (1911), 212, pl. xlv, figs. 18-21.
 Miocene?; Maryland?.

LAMNIDÆ Richardson.

- Richardson, J. 1846 A, 195.
 Hay, O. P. 1902 A, 301.
 Allis, E. P. 1913 A (Carchariidæ).
 Arltdt, T. 1907 D, 184, 283.
 Bassani, F. 1891 A, 13.
 Bonaparte, C. L. 1840 A, 46 (Lamnini).
 Bridge, T. W. 1904 A, 450.
 Bronn, H. G. 1849 A, 781, seq. (Lamnoidei).
 Chapman, F. 1918 A, 8.
 Cope, E. D. 1891 N, 17.
 Cunningham, J. T. 1912 A, 246.
 Deinse, A. B. 1916 A, 446.
 Dollo, L. 1889 F, 342.
 1904 C, 48.
 Fitzinger, L. J. 1873 A, 55 (Lamnæ).
 Fowler, H. W. 1911 A, 31.
 Garman, S. 1913 A, 31 (Isuridæ).
 Gaupp, E. 1905 D, 894 ("lamniden").
 Goodrich, E. S. 1909 A, 149.
 Gregory, W. K. 1907 D, 447.
 Hay, O. P. 1901 B, 67.
 Hoernes, R. 1886 A, 541.
 Huber, O. 1901 A, 617.
 Jacobshagen, E. 1923 A, 176 ("lamniden").
 Jaekel, O. 1895 E, 22.
 Jordan, D. S. 1905 A, i, 537; ii, 578.
 1907 B, 194, 758.
 1923 A, 99.
 Jordan and Gilbert 1882 A, 28.

- Jordan and Hannibal 1923 A, 45, 48.
 Kingsley, J. S. 1885 A, 79.
 Leigh-Sharpe, W. H. 1926 A, 340.
 Leriche, M. 1902 B, 103.
 1906 C, 273.
 Leunis and Ludwig 1883 A, 784.
 Mayer, P. 1886 A, 277 ("lamniden").
 Müller and Henley 1888 A, 36 (Lamnoidea).
 Priem, F. 1908 B, 25 ("lamnidés").
 Radcliffe, L. 1916 A, 247 (Isuridæ).
 Rauter, M. 1913 A, 1098.
 Regan, C. T. 1906 A, 723, 741, 744.
 Ridewood, W. G. 1895 B, 429.
 1921 A, 355, 395.
 Roth, W. 1911 A, 533-543.
 Schlosser, M. 1917 A, 136, 139, 141 ("lamniden").
 Schmalhausen, J. J. 1913 A, 25.
 Steinmann, G. 1907 A, 401.
 Stromer, E. 1905 C, 167, 179.
 1912 A, 19.
 Tomes, C. S. 1898 B, 443.
 Wallace, A. R. 1876 A, ii, 460.
 Weiler, W. 1922 A, 88, 104.
 Woodward, A. S. 1889 I, 7.
 1891 E, 62.
 1916 A, lxxiv ("lamnid sharks").
 1921 B, 38.
 Zittel and Koken 1911 A, 51.
 Zittel and Schlosser 1923 A, 57.

LAMNINÆ Gill.

- Gill, T. 1862 A, 368.
 Hay, O. P. 1902 A, 302.

Goodrich, E. S. 1909 A, 150.

LAMNA Cuvier. Type *Squalus cornubicus* Gmelin.

- Hay, O. P. 1902 A, 302.
 Abel, O. 1909 D (225).
 1912 F, 422, 517.
 1915 A, 415.
 1920 A, 327, fig. 518.
 Agassiz, L. 1835 G, 187.
 Ameghino, F. 1906 A, 186.
 Arltdt, T. 1923 A, 484.
 Bassani, F. 1891 A, 22.
 Braus, H. 1906 A, 186, fig. 187.
 Bridge, T. W. 1904 A, 451.
 Bronn, H. G. 1848 A, 625.
 1849 A, 643.
 Chapman, F. 1918 A, 13.
 Coulon, L. 1903 A, 122.
 Daniel, J. F. 1922 A, 101, fig. 98.
 Darton, N. H. 1908 A, 457.
 Deinse, A. B. 1916 A, 442.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 124 ("lamie").
 Eastman, C. R. 1901 B, 103 (Odontaspis).

- Fowler, H. W. 1911 A, 42.
 Garman, S. 1913 A, 34.
 Giebel, C. G. 1855 A, 116.
 Goodrich, E. S. 1906 A, 345.
 1909 A, 511, figs.
 Haswell, W. A. 1884 A, 84.
 Hay, O. P. 1901 B, 67.
 Heilprin, A. 1887 A, 297, 300.
 Huber, O. 1901 A, 617, pl. xxvii.
 Jacobshagen, E. 1923 A, 176.
 Jordan, D. S. 1905 A, i, 534, 538.
 1907 B, 194.
 1917 A, 97.
 1923 A, 99.
 Jordan and Beal 1913 A, 249.
 Jordan and Evermann 1917 A, 97 ("Type
Squalus cornubicus Bloch and Schneider").
 Jordan and Gilbert 1882 A, 29.
 Jordan and Hannibal 1923 A, 43, 50.
 Klaatsch, H. 1890 A, 121.
 Leigh-Sharpe, W. H. 1921 A, 367, figs. 5-7.

- Leriche, M. 1906 C, 416 (Lamna); 419 (Odontaspis).
 Leunis and Ludwig 1883 A, 784.
 Mantell, G. A. 1844 A, 623.
 Müller and Henle 1838 A, 36.
 Osburn, R. C. 1907 B, 182.
 Owen, R. 1839 G, 211.
 1845 B, 24, 26, 28, pl. v, fig. 1.
 1868 A, 888.
 Primm, F. 1896 B, 13.
 1908 B, 41, 78.
 Probst, J. 1886 B, 312.
 Ridewood, W. G. 1896 A, 382, fig. 2.
 1921 A, 355, fig. 9.
 Roth, W. 1911 A, 538, pl. vii.
 Sauvage, E. 1867 A, 120.
 Schmalhausen, J. J. 1913 A, 21.
 Stannius, H. 1854 A.
 Stephan, P. 1900 A, 327.
 Stefano, G. 1912 A, 370.
 Stromer, E. 1905 C, 169.
 Terra, P. 1911 A, 200, fig. 48.
 Tones, C. S. 1898 B, 444, 447, pl. xvii.
 1898 C, 345.
 Weidenreich, F. 1926 A, 46.
 Weiler, W. 1922 A, 88.
 Woodward, A. S. 1889 I, 10.
 1912 A (1911), 206.
 Zittel and Koken 1911 A, 52.
 Zittel and Schlosser 1923 A, 57, figs. 85-88.
- Lamna appendiculata** Agassiz.
 Hay, O. P. 1902 A, 304 (Otodus).
 Ameghino, F. 1906 A, 71, 178, pl. i, fig. 12.
 1908 B, 491.
 Chapman, F. 1918 A, 11, 14, text-figs. 2.
 Coulon, L. 1903 A, 126 (Otodus).
 Dollo, L. 1914 A, 290.
 Fowler, H. W. 1911 A, 54, figs. 20, 21 (Otodus).
 Fritsch, A. 1878 A, 5, text-figs. 5, 42 (Otodus).
 Gervais, P. 1852 A, explan. pl. lxxvi (Lamna acuminata, Corax appendiculatus).
 1859 A, 524, pl. lxxvi (Lamna acuminata, Corax appendiculatus).
 Gidley, J. W. 1926 E, 16 (Otodus).
 Gorjanovič-Kramberger, D. 1891 A, 92, pl. viii, fig. 16.
 Hopkins, F. V. 1871 A, 13 (Otodus).
 Jordan and Beal 1913 A, 246, 250.
 Jordan and Hannibal 1923 A, 46.
 Lambe, L. M. 1904 C, 25, 37, 41.
 Leriche, M. 1902 A, 11.
 1902 B, 111, pl. iii, figs. 28-38.
 1906 B, 348, 350.
 1906 C, 411.
 1913 A, 78, pl. x, figs. 3-5.
 Lyell, C. 1844 A, 303.
 Priem, F. 1896 B, 14, pl. i, figs. 5-9.
 1907 A, 463, 464, figs. 2, 5.
 1908 B, 47, 69, pl. i, fig. 19, text-figs. 27, 28.
 1912 B, 259, 268.
 1913 A, 160.
 1914 C, 366, pl. x, fig. 11.
 Sauvage, E. 1867 A, 120 (Otodus).
 Spillman, W. 1863 A (Otodus).
- Stephenson, L. W. 1912 A, 127, 128, 130, 136, 138, 148, 149 (Otodus).
 Tanner, V. M. 1925 A, 6, pl. i, fig. 3.
 Upham, W. 1888 A, 603 (Otodus).
 Woodward, A. S. 1912 A (1911), 206, pl. xlv, figs. 3-7, text-figs. 63, 64.
 Zittel and Schlosser 1923 A, 57, fig. 86.
 Upper Cretaceous; California, British Columbia, New Jersey, North Carolina, Minnesota, Iowa: Eocene; Louisiana: Miocene; New Jersey.
- Lamna caurina** Jordan and Hannibal.
 Jordan and Hannibal 1923 A, 50, 61, pl. iii, figs. o, s.
 Oligocene (Lorenzo); Washington.
- Lamna crassidens** Agassiz.
 Hay, O. P. 1902 A, 302.
 Coulon, L. 1903 A, 123.
 Leriche, M. 1902 A, 32 (Odontaspis).
 1905 A, 75, 120, 187, 200, 208, pl. vi, figs. 13-19 (Odontaspis).
 1906 C, 413, pl. ix, figs. 13-19 (Lamna).
 Eocene and Miocene; Europe: Miocene; Virginia.
- Lamna gracilis** Agassiz.
 Hay, O. P. 1902 A, 303.
 Leriche, M. 1902 B, 108, pl. iii, fig. 14 (Scapanorhynchus).
 Sauvage, E. 1867 A, 120.
 Cretaceous; Europe: Eocene; South Carolina.
- Lamna macrorhiza** Cope.
 Hay, O. P. 1902 A, 303.
 Coulon, L. 1903 A, 125 (Odontaspis).
 Hussakof, L. 1908 A, 31.
 Leriche, M. 1902 B, 109, pl. iii, figs. 18-27 (Odontaspis).
 1906 B, 348 (Odontaspis).
 1910 A, 459 (Odontaspis).
 Priem, F. 1907 C, 49 (Scapanorhynchus).
 1908 B, 41, fig. 16 (Scapanorhynchus).
 1912 B, 259 (Scapanorhynchus).
 Upper Cretaceous (Niobrara); Texas or Kansas?: Cenomanian, Senonian; France.
- Lamna manitobensis** Whiteaves.
 Hay, O. P. 1902 A, 303.
 Lambe, L. M. 1904 C, 21, 36, 41.
 Tyrrell, J. B. 1892 A, 113.
 Cretaceous (Colorado); Manitoba.
- Lamna mudgei** Cope.
 Hay, O. P. 1902 A, 303.
 Fowler, H. W. 1911 A, 51, fig. 18.
 Gidley, J. W. 1926 E, 16.
 Upper Cretaceous (Niobrara); Kansas: ("Greensand No. 4"); New Jersey.
- Lamna ornata** Agassiz.
 Hay, O. P. 1902 A, 303.
 Blake, W. P. 1857 A, 152, figs. 1, 2.

Jordan, D. S. 1907 A, 107.

Jordan and Beal 1913 A, 250.

Jordan and Hannibal 1923 A, 46, 61, pl. iii, figs. v, w (Carcharias).

Miocene; California.

Lamna? quinquelateralis Cragin.

Hay, O. P. 1902 A, 303.

Cretaceous (Comanche); Kansas.

Lamna texana Roemer.

Hay, O. P. 1902 A, 303.

Fowler, H. W. 1911 A, 52, fig. 19.

Gidley, J. W. 1911 in Veatch and Stephenson 1911 A, 208.

Stephenson, L. W. 1912 A, 127, 130, 136, 138, 140, 143, 148, 149.

Upper Cretaceous; Texas, New Jersey; New Mexico (Ripley); Georgia.

Lamna sp. indet.

Hay, O. P. 1902 A, 304.

Bowen, C. F. 1915 A, 120. Upper Cretaceous (Hell Creek); Montana.

Brown, B. 1907 A, 842. Upper Cretaceous (Hell Creek); Montana.

Cannon, G. L. 1890 B, 313. Upper Cretaceous (Niobrara); Colorado.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.

Gilbert, G. K. 1875 A, 344.

Hay, O. P. 1923 A, 370.

Jordan, D. S. 1907 A, 107. Cretaceous (Chico); California.

Lee, W. T. 1917 A, 202. Upper Cretaceous (Mesaverde); New Mexico.

Sternberg, C. M. 1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

Tuomey, M. 1848 A, 160, 163, 166, 180. Tertiary; South Carolina.

Worthen, A. H. 1890 A, 4, figs. 1-3. Skunk and Des Moines rivers, Iowa.

SPHENODUS Agassiz. Type *Lamna longidens* Agassiz.

Hay, O. P. 1902 A, 302.

Bronn, H. G. 1848 B, 1165.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1919 B, 214 (Preoccupied by *Sphenodon*).

Jordan, D. S. 1923 A, 99.

Schlosser, M. 1917 A, 136, 137 (Orthacodus).

Sphenodus rectidens Emmons.

Hay, O. P. 1902 A, 302.

Cretaceous; North Carolina.

LEPTOSTYRAX Willist. Type *L. bicuspidatus* Willist.

Hay, O. P. 1902 A, 304.

Jordan, D. S. 1923 A, 99.

Sauvage, H. E. 1901 F, 77.

Leptostyrax bicuspidatus Willist.

Hay, O. P. 1902 A, 304.

Cretaceous (Mentor); Kansas.

OTODUS Agassiz. Type *O. obliquus* Agassiz.

Hay, O. P. 1902 A, 304.

Arlt, T. 1907 D, 339.

1923 A, 484.

Bronn, H. G. 1848 B, 886.

1849 A, 643.

Coulon, L. 1903 A, 126.

Eastman, C. R. 1901 B, 106.

Fowler, H. W. 1911 A, 53.

Giebel, C. G. 1855 A, 116.

Hay, O. P. 1901 B, 67.

Heilprin, A. 1887 A, 300.

Humphreys, J. 1908 A, 14, pl. i, figs. 1, 3.

Jordan, D. S. 1905 A, i, 538.

1907 B, 195.

1919 B, 214 (Syn.? of *Lamna*).

1923 A, 99.

Leriche, M. 1906 C, 419.

Owen, R. 1845 B, 28.

Priem F. 1896 B, 13.

1908 B, 48.

Probst, J. 1886 B, 308.

Sauvage, E. 1867 A, 119.

Stefano, G. 1912 A, 370.

Stromer, E. 1905 C, 169.

Terra, P. 1911 A, 200, fig. 50.

Winckler, T. C. 1876 A, 4.

Woodward, A. S. 1889 I, 10.

Otodus? apiculatus Agassiz.

Hay, O. P. 1902 A, 304.

Leriche, M. 1906 C, 411.

Eocene; South Carolina.

Otodus crassus Agassiz.

Hay, O. P. 1902 A, 304.

Chapman, F. 1918 A, 16, pl. iii, fig. 10; pl. vii, fig. 16 (*Lamna*).

Cretaceous; Europe, Alabama.

Otodus levis Gibbes.

Hay, O. P. 1902 A, 304.

Fowler, H. W. 1911 A, 57, fig. 22.

Eocene; South Carolina, New Jersey.

Otodus obliquus Agassiz.

Hay, O. P. 1902 A, 305.

Ameghino, F. 1906 A, 178, 185, pl. ii, fig. 13 (*Lamna*).

1908 B, 492 (*Lamna*).

Clark and Miller 1912 A, 117, 118.

Coulon, L. 1903 A, 126.

Eastman, C. R. 1901 B, 106, pl. xv, figs. 1-4c.

1904 H, 82, pl. xxx, figs. 8, 9.

Fowler, H. W. 1911 A, 57, figs. 23, 25 (O. lanceolatus).

Leriche, M. 1902 A, 33.

1905 A, 76.

1906 B, 350, 351, 352, 353, 355.

1906 C, 419.

1908 A, 242, pl. v, figs. 1-5.

1926 A, 15, text-fig. 1.

Miller, B. L. 1911 A, 103.

1912 A, 2.

Shattuck, G. B. 1904 A, xcvi.

Shattuck, Miller and Bibbins 1907 A, 5.

Stanton, T. W. 1920 A, 49, pl. ix, fig. 14.

Stefano, G. 1912 A, 373, pls. xiii, xiv (Lamna).

1912 B, 44, pls. i, ii (Lamna).

Stromer, E. 1905 C, 170.

Woodward, A. S. 1889 I, 10.

Zittel and Schlosser 1923 A, 57, fig. 87 (Lamna).

Tertiary; Europe, Egypt: Upper Cretaceous (Manasquan, etc.); New Jersey: (Lance); North Dakota, South Dakota: Eocene (Shark River); New Jersey: (Aquia); Virginia: (Pamunkey); Maryland: Miocene (Shiloh); New Jersey: (Calvert, Aquia); Maryland.

Otodus sulcatus Geinitz.

Geinitz, F. E. 1843, Char. Schicht. u. Petraf. sachs.-bohm. Kreidegeb., Nachtr., 5, pl. iv, fig. 2.

Hay, O. P. 1902 A, 304 (O. divaricatus).

Leidy, J.* 1873 B, 305, 351, pl. xviii, figs. 26-28 (O. divaricatus).

Leriche, M. 1902 B, 115, pl. iii, fig. 47.

Priem, F. 1908 B, 48.

1912 B, 268.

Cretaceous; Europe: Cretaceous; Texas, Mississippi: (Benton); Kansas.

Otodus trigonatus Agassiz.

Hay, O. P. 1902 A, 305.

Eocene; South Carolina?

Otodus sp. indet.

Gilbert, G. K. 1875 A, 543. Cretaceous? New Mexico.

Merrill, G. P. 1907 A, 13. Eocene (Wasatch); New Mexico.

Tuomey, M. 1848 A, 160, 163, 166 ("Otodus"). Tertiary; South Carolina.

Uhler, P. H. 1892 A, 206 (Massachusetts).

ISURUS Rafinesque. Type *I. oxyrhynchus* Raf. = *Oxyrhina spallanzanii* Bonaparte.

Unless otherwise indicated the authors, as cited, employ for this genus the name *Oxyrhina*.

Hay, O. P. 1902 A, 305 (Isurus).

Allis, E. P. 1915 A, 587.

Ameghino, F. 1906 A, 186.

Arlt, T. 1923 A, 484 (Isurus, Oxyrhina).

Bridge, T. W. 1904 A, 451 (Isurus).

Bronn, H. G. 1848 B, 888.

1849 A, 643.

Coulon, L. 1903 A, 120.

Duméril, A. 1856 A, 131.

Fowler, H. W. 1911 A, 31 (Isurus).

Garman, S. 1913 A, 34 (Isurus).

Gaudry, A. 1896 A, 172, fig. 158.

Giebel, C. G. 1855 A, 116, pl. xlvii.

Hay, O. P. 1901 B, 67 (Isurus).

Huber, O. 1901 A, 618.

Humphreys, J. 1908 A, 14.

Jaekel, O. 1895 E, 32.

1904 A, 27.

Jordan, D. S. 1907 A, 107 (Isurus).

1910 B, 182 (Isurus).

1917 A, 78.

1923 A, 99 (Isurus).

Jordan and Gilbert 1882 A, 28 (Isurus).

Jordan and Hannibal 1923 A, 50 (Isurus).

Lawley, R. 1878 B, 337.

1878 C, 343.

1881 A, pls.

Leriche, M. 1906 C, 419.

1910 D, 274, fig. 77.

Mantell, G. A. 1844 A, 628.

Müller and Henle 1838 A, 36.

Priem, F. 1908 B, 47.

Probst, J. 1886 B, 308.

Radcliffe, L. 1916 A, 247 (Isurus).

Regan, C. T. 1906 A, 734.

Ridewood, W. G. 1921 A, 358.

Roth, W. 1911 A, 539, pls. vi, vii.

Sauvage, E. 1867 A, 123.

Smith, H. M. 1916 A, 342 (Isurus).

Stefano, G. 1912 A, 397.

Stromer, E. 1905 C, 167.

Weiler, W. 1922 A, 88.

Woodward, A. S. 1889 I, 11.

1912 A (1911), 202.

Zittel and Koken 1911 A, 52.

Zittel and Schlosser 1923 A, 58, fig. 89.

Isurus crassus (Agassiz).

Hay, O. P. 1902 A, 305.

Ameghino, F. 1906 A, 180, pl. ii, fig. 19 (Oxyrhina).

Eastman, C. R. 1903 A, 185, pl. i, figs. 11-20; text-figs. 1-3 (Oxyrhina).

1906 E, 82, pl. ii, figs. 1-5, 8-12, 14-17 (Oxyrhina).

Leriche, M. 1906 A, 299 (Oxyrhina).

Stefano, G. 1912 A, 404, pls. xiii, xiv (Oxyrhina. This species?).

Worthen, A. H. 1890 A, 4, fig. 8 (Oxyrhina. This species?).

Eocene; South Carolina, Alabama, Illinois?

Isurus desorii (Agassiz).

Hay, O. P. 1902 A, 305.

Ameghino, F. 1906 A, 180, 259; pl. ii, fig. 18, text-fig. 47 (Oxyrhina).

1908 B, 481 (Oxyrhina).

Chapman, F. 1918 A, 16, 31, pl. v, figs. 15, 16.

Coulon, L. 1903 A, 121 (Oxyrhina).

Eastman, C. R. 1904 H, 79, pl. xxx, fig. 4 (Oxyrhina).

Fowler, H. W. 1911 A, 32, figs. 5, 6.

* Not Cope, E. D. 1873 B, etc., as in Hay, O. P. 1902 A, 304.

- Gervais, P. 1852 A, explan. pl. lxxv (*Oxyrhina*).
 1859 A, 520; pl. lxxv, fig. 2 (*Oxyrhina*).
 Hopkins, F. V. 1870 A, 93 (*Oxyrhina*).
 Jordan, D. S. 1907 A, 112 (This species?).
 Jordan and Beal 1913 A, 246, 251.
 Jordan and Hannibal 1923 A, 48 (This genus and species?).
 Lawley, R. 1878 C, 346, 349 (*Oxyrhina*).
 Leriche, M. 1905 A, 128, 189.
 1906 A, 299 (*Oxyrhina desori*).
 1906 B, 353 (*Oxyrhina desori*).
 1906 C, 414, pl. xvi, figs. 8-12 (*Oxyrhina desori*).
 1910 B, 330, pl. iii, figs. 14, 15 (*Oxyrhina desori*).
 1910 D, 275, pl. xvi, figs. 16-31 (*Oxyrhina desori*).
 Priem, F. 1907 A, 465, fig. 8 (*Oxyrhina*).
 1911 B, 330 (*Oxyrhina*).
 1912 A, 215, 218, 227, 238; pl. vi, figs. 1-9; pl. vii, figs. 2-5 (*Oxyrhina desori*).
 Sellards, E. H. 1913 A, pl. vi, figs. 5-7 ("shark").
 Shattuck, G. B. 1904 A, xcvi.
 Stefano, G. 1912 A, 399, pls. xiii, xiv (*Oxyrhina*).
 Stromer, E. 1903 A, 30; pl. i, figs. 13-15 (*Oxyrhina*).
 1905 C, 167; pl. xv, figs. 15-18 (*Oxyrhina desori*?).
 Weiler, W. 1922 A, 89 (*Oxyrhina*).
 Tertiary; Europe: (Chico); California??;
 Upper Cretaceous; New Jersey: Miocene;
 New Jersey, Maryland, Louisiana: Eocene;
 Alabama, North Carolina, South Carolina.
- Isurus hastalis (Agassiz).**
 Hay, O. P. 1902 A, 306 (*I. hastalis*); 307 (*I. planus*, *I. tumulus*).
 Ameghino, F. 1906 A, 179, 259 (*Oxyrhina*).
 1908 B, 479 (*Oxyrhina*).
 Anderson, F. M. 1911 A, 101 (*I. planus*, *I. smithi*, *I. tumulus*).
 Arnold, R. 1907 A, 153 (*Oxyrhina plana*, *O. tumulus*).
 Arnold and Hannibal 1913 A, 591 (*Isurus*).
 Bassani, F. 1891 A, 31, pl. i, fig. 3; pl. ii, figs. 1, 26 (*Oxyrhina*).
 Blake, W. P. 1857 A, 171, 172, figs. 1, 6 (*Oxyrhina plana*, *O. tumula*).
 1866 A, 107, fig. 9 (*Oxyrhina plana*).
 Chapman, F. 1918 A, 17, 31, pl. v, fig. 21; pl. vi, fig. 5.
 Coulon, L. 1903 A, 121 (*Oxyrhina plicatilis*, *O. hastalis*).
 Dall, W. H. 1894 A, 297 (*Oxyrhina*).
 Eastman, C. R. 1904 H, 80, pl. xxx, figs. 5, 6 (*Oxyrhina*).
 Fowler, H. W. 1911 A, 35, figs. 7, 8.
 Gaudry, A. 1906 B, 114 (*Oxyrhina*).
 Gervais, P. 1852 A, explan. pl. lxxv (*Oxyrhina hastalis*, *O. xiphodon*, *O. plicatilis*).
 1859 A, 520, pls. lxxv (*Oxyrhina hastalis*, *O. xiphodon*, *O. plicatilis*).
 Hay, O. P. 1927 D, 174.
 Ishiwara, Y. 1921 A, 62, pl. x, figs. 1-32.
- Jordan, D. S. 1907 A, 107, fig. 9 (*I. planus*); 109, figs. 10, 11 (*I. tumulus*); 111, fig. 12 (*I. smithii*).
 1910 B, 181 (*I. hastalis*, *I. planus*, *I. smithii*, *I. tumulus*).
 1922 B, 342, fig. c (*I. planus*. This species?).
 1925 B, 7, 40.
 Jordan and Beal 1913 A, 246, 249, 250, 251 (*I. smithii*, *I. planus*, *I. tumulus*).
 Jordan and Gilbert 1919 A, 21, pl. vii, figs. A, D, H, (*I. plana*, *I. smithi*, *I. tumulus*, syns.).
 Jordan and Hannibal 1923 A, 50, 61, pl. i, figs. b, g, h; pl. iii, figs. g, x, y; pl. v, figs. d, e, f.
 Lawley, R. 1878 B, 339 (*Oxyrhina*).
 1878 C, 348 (*Oxyrhina planus*, *O. tumulus*).
 Leriche, M. 1906 A, 300 (*Oxyrhina*).
 1906 C, 415.
 1908 C, 303 (*Oxyrhina*, *Isurus plana*, *I. tumulus* and *I. smithii* as syns.).
 Lyell, C. 1845 C, 549, 560 (*I. hastalis*, *I. xiphodon*).
 Merriam, J. C. 1915 B, 288, fig. 7 (*I. planus*?).
 Newton, E. T. 1891 A, 106, pl. ix, figs. 15a, 15b (*Oxyrhina*).
 Priem, F. 1911 B, 330 (*Oxyrhina*).
 1912 A, 215, 218, 227, 238 (*Oxyrhina*).
 Shattuck, G. B. 1904 A, xcvi.
 Stefano, G. 1901 A, 555, pl. x, figs. 1, 2 (*Oxyrhina*).
 1912 A, 406, pls. xiii, xiv (*Oxyrhina*).
 1912 B, 48, pls. i, ii.
 Stromer, E. 1905 C, 168 (*Oxyrhina*).
 Tomes, C. S. 1898 B, 446 (*Oxyrhina*).
 Weiler, W. 1922 A, 88 (*Oxyrhina*).
 Upper Cretaceous (Manasquan); New Jersey, Delaware: Eocene (Arago); Oregon: (Tejon); California: Miocene (Calvert and Choptank); Maryland, Virginia: (Monterey); California, Lower California: (Empire); Oregon: Pliocene (San Diego); California: Pleistocene (Lomita); California.
- Isurus mantellii (Agassiz).**
 Hay, O. P. 1902 A, 306.
 Abel, O. 1919 A, 109, fig. 68 (*Oxyrhina*).
 Ameghino, F. 1906 A, 71 (*Oxyrhina*).
 Bassani, F. 1890 A, 1, pls. (*Oxyrhina*).
 Coulon, L. 1903 A, 120 (*Oxyrhina*).
 Fowler, H. W. 1911 A, 38, figs. 9, 10 (*I. acuminatus*).
 Gervais, P. 1852 A, explan. pl. lxxvi (*Oxyrhina*).
 1859 A, 524, pl. lxxvi, figs. 3, 20 (*Oxyrhina*).
 Hill, R. T. 1901 A, 328 (*Oxyrhina extenta*).
 Lawley, R. 1878 B, 339 (*Oxyrhina*).
 Leriche, M. 1902 B, 116, pl. iii, figs. 49-53 (*Oxyrhina*).
 1906 B, 349 (*Oxyrhina*).
 1906 C, 418 (*Oxyrhina*).
 Moodie, R. L. 1912 C, 378.
 Priem, F. 1896 B, 12, pl. i, fig. 10 (*Oxyrhina mantellii*).
 1907 A, 464, fig. 4 (*Oxyrhina*).
 1908 B, pl. ii, fig. 3 (*Oxyrhina*).
 1912 B, 268 (*Oxyrhina*).

- Sauvage, E. 1867 A, 123, pl. iii, fig. 12 (Oxyrhina).
 Spillman, W. 1863 A (Oxyrhina).
 Sternberg, C. H. 1900 B, 38 ("shark").
 1906 B, 123 (Oxyrhina mantelli).
 1907 C, 123 (Oxyrhina).
 1909 C, 113 (Oxyrhina mantelli).
 1911 A, 71 (Oxyrhina mantelli).
 Woodward, A. S. 1912 A (1911), 202, pl. xliii, figs. 10-15; text-figs. 60, 61 (Oxyrhina).
 Upper Cretaceous; Europe: Upper Cretaceous (Manasquan); New Jersey: Cretaceous; Alabama, Kansas, Mississippi: Eocene; New Jersey: Miocene; New Jersey.
- Isurus minutus** (Agassiz).
 Hay, O. P. 1902 A, 306.
 Eastman, C. R. 1904 H, 81 (Oxyrhina. This species?).
 Shattuck, G. B. 1904 A, xcvi.
 Stromer, E. 1905 C, 168 (Oxyrhina).
 Miocene: North Carolina: Miocene (Chesapeake); Maryland: Eocene; South Carolina.
- Isurus retroflexus** (Agassiz).
 Agassiz, L. 1843 B, 281, pl. xxxiii, fig. 10 (Oxyrhina).
 Hay, O. P. 1902 A, 306 (I. hastalis, in part).
 Agassiz, L. 1843 B, 283, pl. xxxvii, fig. 16 (Oxyrhina crassa).
 Chapman, F. 1918 A, 18, pl. iv, figs. 1, 2.
 Davis, J. W. 1888 A, 26, pl. iv, figs. 1, 2 (not 3), (O. vonhaastii); 27, pl. v, fig. 14 (O. recta).
 Gibbes, R. W. 1846 A, 42 (Oxyrhina).
 Woodward, A. S. 1889 D, 389 (O. crassa).
 Miocene; South Carolina: Eocene, Miocene, Pliocene; Europe.

- Isurus sanctæ-clarae** Jordan and Hamlin.
 Jordan and Hamlin 1923 A, 52, 61, pl. iii, figs. e, f; pl. vi, fig. e.
 Cretaceous (Chico); California: Oligocene (Vaqueros, San Lorenzo); California: Miocene (Monterey); California.

Isurus sillimanii (Gibbes).

- Hay, O. P. 1902 A, 307.
 Eastman, C. R. 1904 H, 81, pl. xxx, fig. 7 (Oxyrhina).
 Fowler, H. W. 1911 A, 40, fig. 11.
 Shattuck, G. B. 1904 A, xcvi.
 Stromer, E. 1905 C, 168 (Oxyrhina).
 Miocene: New Jersey: Miocene (Calvert); Maryland: Eocene; Egypt.

Isurus sp. indet.

- Hay, O. P. 1902 A, 307.
 Cannon, G. L. 1890 B, 313 (Oxyrhina). Upper Cretaceous (Niobrara); Colorado.
 Cope, E. D. 1875 E, 296 (Oxyrhina sp.). Greensand No. 4, New Jersey.
 Fowler, H. W. 1911 A, 42.
 Hay, O. P. 1923 A, 381. Pleistocene (Early); Florida.
 Jordan and Hannibal 1923 A, 52. Eocene; Oregon.
 Merriam, J. C. 1914 C, 644 (Temblor, California).
 1915 E, 197, fig. 23.
 Tuomey, M. 1848 A, 160, 163, 169 (Oxyrhina). Eocene; South Carolina.

CARCHARODONTINÆ Gill.

- Gill, T. 1893 A, 130.
 Hay, O. P. 1902 A, 307.

- Jordan and Hannibal 1923 A, 53 (Carcharodontidæ).

CARCHARODON A. Smith. Type *Squalus carcharias* Linn.

- Hay, O. P. 1902 A, 307.
 Ameghino, F. 1906 A, 186.
 Arltdt, T. 1923 A, 484.
 Bassani, F. 1891 A, 13.
 Bridge, T. W. 1904 A, 452.
 Bronn, H. G. 1848 A, 219.
 1849 A, 642.
 Coulon, L. 1903 A, 127.
 Cunningham, J. T. 1912 A, 284.
 Deecke, W. 1913 A, 83.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 131.
 Eastman, C. R. 1901 B, 107.
 Fowler, H. W. 1911 A, 59.
 Garman, S. 1913 A, 32.
 Giebel, C. G. 1855 A, 116.
 Hay, O. P. 1901 B, 67.
 Heilprin, A. 1887 A, 297, 300.
 Humphreys, J. 1908 A, 14, pl. i, fig. 4.
 Jaekel, O. 1895 E, 23, pls. i, ii.
 Jordan, D. S. 1905 A, 538.
 1907 B, 195.
 1919 B, 190.

- Jordan, D. S. 1923 A, 99.
 1928 A, 1.
 Jordan and Gilbert 1882 A, 30.
 Jordan and Hannibal 1923 A, 53.
 Kingsley, J. S. 1885 A, 79.
 Klaatsch, H. 1890 A, 121.
 Lawley, R. 1878 A, 330.
 1881 A, pls.
 Leriche, M. 1906 C, 413.
 1910 D, 287, fig. 89.
 Leunis and Ludwig 1883 A, 784.
 Matthew, W. D. 1908 H, 110.
 Müller and Henle 1838 A, 36.
 Owen, R. 1839 G, 212.
 1845 B, 30.
 Priem, F. 1908 B, 79, 123, fig. 61.
 Probst, J. 1886 B, 309.
 Radcliffe, L. 1916 A, 247.
 Ridewood, W. G. 1921 A, 355, fig. 9.
 Schmalhausen, J. J. 1913 A, 10.
 Smith, H. M. 1916 A, 342.
 Stefano, G. 1912 A, 357.
 Storms, R. 1901 A, 259.

Stromer, E. 1905 C, 172.
1905 E, 315.
1925 A, 20.

Terra, P. 1911 A, 200, fig. 49.
Tomes, C. S. 1898 B, 459.
Wilckens, O. 1911 A, 708.
Woodward, A. S. 1889 I, 11.
Zittel and Koken 1911 A, 53.
Zittel and Schlosser 1923 A, 58.

Carcharodon angustidens Agassiz.

Hay, O. P. 1902 A, 307 (C. auriculatus, in part).
Ameghino, F. 1906 A, 181, pl. ii, fig. 20.
Coulon, L. 1903 A, 127.
Dall, W. H. 1894 A, 297.
Dean, B. 1923 A, 607, fig.
Hopkins, F. V. 1871 A, 13 (This species?).
Jordan, D. S. 1907 A, 112.
Leriche, M. 1906 A, 303.
1906 C, 411.
1910 B, 330.
Priem, F. 1906 A, 199, pl. viii, figs. 14, 15.
1911 B, 331, fig. 3.
1912 A, 215, 227, 239, pl. vii, fig. 7.
Sellards, E. H. 1913 A, pl. vii, fig. 6 ("shark."
This species?).
Storms, R. 1901 A, 266.
Stromer, E. 1905 C, 173, pl. xv, figs. 1-7.
Tertiary; of world-wide distribution: Eocene
and Miocene; reported from some parts of
the United States: Eocene (Jackson and Vicks-
burg); Louisiana.

Carcharodon arnoldi Jordan.

Jordan, D. S. 1907 A, 113, fig. 13.
Arnold and Anderson 1910 A, 130, 133, 329.
Hay, O. P. 1927 D, 174.
Ishiwara, Y. 1921 A, 67, pl. xii, figs. 3, 4.
Jordan, D. S. 1910 B, 182.
1922 B, 340.
1926 B, 258.
Jordan and Beal 1913 A, 245, 252.
Jordan and Gilbert 1919 A, 22, 62.
1920 A, 9.
Jordan and Hannibal 1923 A, 55, 62, pl. i, fig.
f; pl. vi, fig. j.
Leriche, M. 1908 C, 304 (Syn. of C. rondeleti).
Miocene (Monterey); Pliocene (San Diego);
Pleistocene (San Pedro); all in California.

Carcharodon branneri Jordan.

Jordan, D. S. 1907 A, 116, fig. 15.
Anderson, F. M. 1911 A, 10.
Hay, O. P. 1927 D, 174.
Jordan, D. S. 1926 B, 258.
Jordan and Gilbert 1919 A, 22 (Syn. of C.
megalodon).
Jordan and Hannibal 1923 A, 53, pl. vi, fig. f;
pl. v, fig. a.
Leriche, M. 1908 C, 304 (Syn. of C. megalodon).
Miocene (Monterey); California, Lower Cali-
fornia, South Carolina, Florida: Pliocene
(Purissima); California: Pleistocene (San Pe-
dro); California.

Carcharodon carcharias (Linn.).

Hay, O. P. 1902 A, 308.
Arlt, T. 1923 A, 485 (C. rondeleti).
Bassani, F. 1905 A, 13, pl. i (C. rondeleti).
Chapman, F. 1918 A, 20, pl. vi, fig. 22; pl.
viii, figs. 1, 2 (C. rondeleti).
Garman, S. 1913 A, 32, pl. v, figs. 5-9.
Haswell, W. A. 1884 A, 83, pl. i (C. rondeleti).
Ishiwara, Y. 1921 A, 68, pl. xii, fig. 5.
Jordan, D. S. 1905 A, 538.
1907 B, 195.
1910 B, 182.
1922 B, 340, fig. 1d. (This species?).
Jordan and Beal 1913 A, 252.
Jordan and Gilbert 1882 A, 30.
Radeliffe, L. 1916 A, 247, pl. xxxviii.
Smith, H. M. 1916 A, 341, fig.
Stefano, G. 1901 A, 558 (C. rondeleti).
1912 B, 43, pls. i, ii (C. rondeleti).
Stevenson, W. G. 1884 A, 83, pls. i, ii.
1884 B, 140, pl. i, text-fig. 1.
Recent, in all temperate and tropical seas:
Miocene?, Pliocene?, Pleistocene?; California.

Carcharodon contortidens Emmons.

Hay, O. P. 1902 A, 308.
Eocene; North Carolina.

Carcharodon lanciformis Gibbes.

Hay, O. P. 1902 A, 308.
Eastman, C. R. 1906 E, 82, pl. ii, figs. 13, 19-22.
Jordan and Hannibal 1923 A, 57.
Phosphate beds; South Carolina.

Carcharodon leptodon Agassiz.

Hay, O. P. 1902 A, 308 (This species?).
Eocene; South Carolina.

Carcharodon leviathan Jordan and Han- nibal.

Jordan and Hannibal 1923 A, 55, pls. vii, viii.
Hay, O. P. 1927 D, 174, 187.
Jordan, D. S. 1922 B, 338, figs. 1-3 (C. bran-
neri).
1925 B, 49.
1926 B, 258.
Pleistocene (Lomita, La Brea); California.

Carcharodon megalodon Agassiz.

Agassiz, L. 1843 B (1835), pl. xxix, figs. 1-7
(Carcharias).
Hay, O. P. 1902 A, 308.
Abel, O. 1922 C, 237, fig. 197 and frontispiece.
Ameghino, F. 1904 B, 11.
1906 A, 185, 259.
1908 B, 481.
Arlt, T. 1907 D, 596.
Bassani, F. 1891 A, 14, pl. i, figs. 1, 2.
Binney, E. W. 1879 A, 118 (Carcharias vul-
garis).
Blake, C. C. 1862 C, 316.
Blake, J. H. 1873 A, 172 (C. subauriculatus).
1874 A, 270 ("Carcharodon").
Chapman, F. 1918 A, 19, pl. ii, figs. 1-3.
Coulon, L. 1903 A, 127.

- Croom, H. B. 1835 A, 170 ("shark").
 Dean, B. 1909 A, 233, pl.
 Eastman, C. R. 1903 A, 186, pl. i, figs. 21-23.
 1904 H, 82, pl. xxxi, figs. 1-4.
 1906 E, 82, pl. ii, fig. 23.
 Gaudry, A. 1906 B, 114.
 Gervais, P. 1852 A, explan. pls. lxxiv, lxxv.
 1859 A, 520, 521, pl. lxxiv, figs. 10-12, 16.
 Giebel, C. G. 1855 A, 116, pl. xlvii, fig. 18.
 Hansemann, D. 1910 A, 387.
 Harlan, R. 1834 B, 89 ("shark," in part).
 Hay, O. P. 1922 B, 3.
 1927 D, 187.
 Hennig, E. 1914 A, 307, pl. xxiii, fig. 8 (This species?).
 Hussakof, L. 1912 C, 224, 2 figs.
 Jaekel, O. 1902 E, 1078.
 Jordan, D. S. 1905 A, 1, 538, fig. 332.
 1907 A, 116.
 1907 B, 195, fig. 138.
 1910 B, 182.
 1922 B, 338.
 Jordan and Beal 1913 A, 245, 251.
 Jordan and Gilbert 1919 A, 22.
 Jordan and Hannibal 1923 A, 54 (C. megalodon, C. mortoni).
 Lawley, R. 1878 A, 334.
 Lankester, E. R. 1905 A, 26, 51, fig. 192a.
 Leriche, M. 1906 A, 304.
 1908 C, 304 (C. riversi, in part, and C. brauneri as syns.).
 Lucas, F. A. 1901 J, 65.
 Lyell, C. 1845 A, 415 (Carcharias).
 1845 C, 549, 560 (C. megalodon, C. productus).
 McLenahan, S. 1852 A, 71 ("whale," in part).
 Manigault, G. E. 1887 A, 131, pl. i.
 Newton, E. T. 1891 A, 103, pl. ix, figs. 13a, 13b.
 Owen, R. 1839 G, 212 (Carcharias).
 1845 B, 34 (Carcharias).
 1868 A, 870.
 Priem, F. 1912 A, 215, 218, 227, 239, pl. vii, figs. 8, 9.
 1914 A, 122, pl. iii, fig. 4.
 Serres, M. 1852 A, 116.
 Shattuck, G. B. 1904 A, xevi.
 Stefano, G. 1912 A, 360, pls. xiii, xiv.
 1912 B, 41, pls. i, ii.
 Sternberg, C. H. 1911 A, 71.
 Underhill, B. M. 1910 A, 77.
 Weiler, W. 1922 A, 92, pl. ii.
 Woodward, A. S. 1922 C, 72, fig. 73.
 Zittel and Schlosser 1923 A, 58, fig. 91.
 Miocene (Calvert); Maryland, Virginia, South Carolina?, California.

Carcharodon morricei Jordan.

- Jordan, D. S. 1926 B, 259, pl. xxvi, fig. 2.
 Lower Miocene (Temblor); California.

Carcharodon polygurus (Morton).

- Hay, O. P. 1902 A, 308 (C. megalodon, including C. polygurus, by error C. polygyrus).
 Fowler, H. W. 1911 A, 61, fig. 27.
 Ishiwara, Y. 1921 A, 65 (C. polygyrus, syn. of C. megalodon).
 Sellards, E. H. 1915 D, 99, fig. 28 ("Carcharodon").
 Upper Cretaceous (Manasquan?); New Jersey: Eocene (Shark River?); New Jersey, Delaware: Eocene (Pamunkey); Virginia: Miocene? New Jersey: Miocene or Pliocene, Florida.

Carcharodon purplei Jordan and Hannibal.

- Jordan and Hannibal 1923 A, 56, 63, pl. v, fig. g; pl. vi, fig. b.
 Hay, O. P. 1927 D, 174.
 Jordan, D. S. 1926 B, 260.
 Pliocene (San Diego); California.

Carcharodon riversi Jordan.

- Jordan, D. S. 1907 A, 115, fig. 14.
 Hay, O. P. 1927 D, 174.
 Ishiwara, Y. 1921 A, 67.
 Jordan, D. S. 1910 B, 182 (Syn. of C. carcharias?).
 1922 B, 340, fig. 1b.
 1926 B, 260.
 Jordan and Beal 1913 A, 245, 252 (Syn. of C. arnoldi).
 Jordan and Hannibal 1923 A, 56, 63, pl. v, fig. b.
 Leriche, M. 1908 C, 104 (Syn. of C. rondeletii).
 Pliocene or Pleistocene (San Diego); California.

Carcharodon tembloris Jordan.

- Jordan, D. S. 1926 B, 258, pl. xxvi, figs. 1, 3.
 Lower Miocene (Temblor); California.

Carcharodon sp. indet.

- Undetermined teeth of *Carcharodon* have been reported as follows:
 Hay, O. P. 1923 A, 370. Pleistocene; Florida.
 Merriam, J. C. 1915 E, 197, fig. 22. California.
 Osborn, H. F. 1918 A, 23. Miocene (Temblor); California.
 Sellards, E. H. 1915 D, 98, fig. 28. Florida.
 Tuomey, M. 1848 A, 160, 165, 166, 178, 180. Tertiary; South Carolina.
 Uhler, P. H. 1892 A, 205, 206. Massachusetts.

CARCHAROCLES Jordan and Hannibal. Type *Carcharodon auriculatus* (Blainville).

- Jordan and Hannibal in Jordan, D. S. 1923 A, 99.
 Jordan, D. S. 1923 A, 99.
 Jordan and Hannibal 1923 A, 56.

Carcharocles auriculatus (Blainville).

- Unless otherwise indicated the authors, as cited, refer this species to *Carcharodon*.
 Hay, O. P. 1902 A, 307.

- Ameghino, F. 1904 B, 11, fig. 3.
 1906 A, 181, pl. ii, fig. 21.
 1908 B, 481.
 Bassani, F. 1891 A, 19, pl. ii, figs. 24, 25.
 1895 A, 6, pl.
 Chapman, F. 1918 A, 18, 32, pl. i, figs. 4-7.
 Clark and Miller 1912 A, 117, 118.
 Coulon, L. 1903 A, 127 (C. disauris).
 Deuesen, A. 1924 A, 86.

- Eastman, C. R. 1901 B, 108.
 Fowler, H. W. 1911 A, 59, fig. 26.
 Gervais, P. 1852 A, explan. pls. lxxiv, lxxv (Carcharodon disaurus).
 1859 A, 520, pls. lxxiv, lxxv (C. disaurus).
 Hay, O. P. 1922 B, 3.
 Jordan, D. S. 1923 A, 99 (To Carcharocles).
 Jordan and Hannibal 1923 A, 57 (Carcharodon aeutidens).
 Leriche, M. 1905 A, 130, 189, 208.
 1906 B, 353, 355.
 1906 C, 411 (C. auriculatus); 414 (C. disaurus).
 Lucas, F. A. 1901 J, 66.
 Priem, F. 1906 A, 199, pl. viii, fig. 13.
 Sellards, E. H. 1913 A, pl. vi, figs. 1-4 ("shark").
 Stefano, G. 1912 A, 358, pls. xiii, xiv (Carcharodon).
 1912 B, 39, 40, pls. i, ii (Carcharodon auriculatus, C. angustidens).
 Storms, R. 1901 A, 261, pl. vii, figs. 5-16 (C. auriculatus); 267 (C. turgidus).

- Stromer, E. 1905 C, 173.
 1905 E, 315.

Woodward, A. S. 1889 I, 11 (Carcharodon).
 Upper Cretaceous (Manasquan, etc.); New Jersey: Eocene (Shark River); New Jersey: (Nanjemoy); Maryland, Virginia: (Fayette); Texas: Miocene (Shiloh); New Jersey.

Carcharocles rectus (Agassiz).

- Hay, O. P. 1902 A, 308 (Carcharodon).
 Anderson, F. M. 1911 A, 101 (Carcharodon).
 Arnold, R. 1907 A, 153 (Carcharodon).
 Blake, W. P. 1857 A, 172 (Carcharodon).
 Gabb, W. P. 1865 A, 174 (Carcharodon).
 Jordan, D. S. 1907 A, 112 (Carcharodon).
 1910 B, 182 (Carcharodon).
 Jordan and Beal 1913 A, 245, 248, 252 (Carcharodon).
 Jordan and Gilbert 1919 A, 22 (Carcharodon).
 Jordan and Hannibal 1923 A, 57, pl. i, figs. a-f, i-j (Carcharocles).
 Miocene (Monterey); California.

CORAX Agassiz. Type *Galeus pristodontus* Morton.

- Hay, O. P. 1902 A, 309.
 Ameghino, F. 1906 A, 182, 186.
 Arltdt, T. 1923 A, 484.
 Bronn, H. G. 1848 A, 333.
 1849 A, 642.
 Chapman, F. 1909 A, 452.
 Coulon, L. 1903 A, 128.
 Fowler, H. W. 1911 A, 62.
 Giebel, C. G. 1855 A, 117.
 Hay, O. P. 1901 B, 67.
 Jordan, D. S. 1905 A, i, 542.
 1907 B, 195, 199.
 1919 B, 214.
 1923 A, 99.
 Leriche, M. 1902 B, 119.
 1906 C, 413.
 Priem, F. 1908 B, 20, fig. 10.
 Sauvage, H. E. 1867 A, 124.
 Winekler, T. C. 1876 A, 10.
 Woodward, A. S. 1917 D, lxxiv.
 1912 A (1911), 196, text-fig. 57.
 Zittel and Koken 1911 A, 52.
 Zittel and Schlosser 1923 A, 58.

Corax curvatus Williston.

- Hay, O. P. 1902 A, 309.
 Cretaceous (Benton); Kansas.

Corax falcatus Agassiz.

- Hay, O. P. 1902 A, 309 (C. falcatus); 311 (Galeocerdo hartwellii).
 Ameghino, F. 1906 A, 71.
 Berry, E. W. 1916 A, 354, pl. ix, fig. 2.
 Cockerell, T. D. A. 1908 C, 162 (C. falcatus); 161 (Galeocerdo hartwellii).
 Coulon, L. 1903 A, 128 (C. appendiculatus).
 Fowler, H. W. 1911 A, 63, fig. 28.
 Gidley, J. W. in Veatch and Stephenson 1911 A, 208, 215.
 1926 E, 16.
 Giebel, C. G. 1855 A, 117, pl. xlvii, figs. 13, 17 (C. heterodon).

- Hennig, E. 1914 A, 307, pl. xxiii, fig. 6 (C. heterodon).
 Hussakof, L. 1908 A, 29, fig. 6.
 Leriche, M. 1902 B, 121, pl. iii, figs. 76-78.
 1906 B, 348.
 1906 C, 415.
 Priem, F. 1907 A, 463, figs. 3, 6.
 1912 B, 269.
 1913 A, 161.
 Sauvage, E. 1867 A, 124.
 Stephenson, L. W. 1912 A, 127, 130, 136, 148.
 1918 A, 153, 157.
 Woodward, A. S. 1912 A (1911), 198, pl. xlii, figs. 16-28; text-fig. 59.
 Cretaceous; Europe: Upper Cretaceous (Ripley); Georgia: (Niobrara); Kansas, New Mexico, Texas, Wyoming: (Manasquan, etc.); New Jersey: (Matawan); Maryland.

Corax pristodontus Agassiz.

- Hay, O. P. 1902 A, 309.
 Berry, E. W. 1916 A, 352, pl. ix, fig. 1.
 Fowler, H. W. 1911 A, 64, fig. 29.
 Leriche, M. 1902 B, 119, pl. iii, figs. 66-75.
 1906 B, 348.
 1906 C, 420.
 Lyell, C. 1844 A, 303 (Galeus).
 Mantell, G. A. 1844 A, 626, fig. 130 (Galeus).
 Merrill, G. P. 1907 A, 11 (Galeocerdo).
 Morton, S. G. 1834 A, 31, pl. ii, fig. 6 (Squalius sp.).
 Priem, F. 1896 B, 17, pl. ii, figs. 11-13.
 1912 B, 269.
 1914 C, 367, pl. x, fig. 17.
 Spillman, W. 1863 A (C. appendiculatus).
 Todd, J. E. 1908 A, 194.
 Tuomey, M. 1848 A, 166 ("Corax").
 Woodward, A. S. 1912 A (1911), 197, pl. xlii, figs. 12-15; text-fig. 58.
 Upper Cretaceous; Old World: Upper Cretaceous (Manasquan, etc.); New Jersey:

(Matawan, Monmouth); Maryland: Eocene;
Alabama, Mississippi, South Carolina: Mio-
cene; Virginia.

Corax sp. indet.

Gidley, J. W. 1926 F, 192, pl. lxii, fig. 11.
Upper Cretaceous (Ripley); Tennessee.

PSEUDOCORAX Priem. Type *Corax affinis* Agassiz.

Priem, F. 1897 A, 46.

Leriche, M. 1902 B, 122.

Pseudocorax affinis (Agassiz).

Hay, O. P. 1902 A, 309 (Corax).

Leriche, M. 1902 B, 122, pl. iii, figs. 79-86.

1906 C, 80, 411.

Priem, F. 1897 A, 46, pl. i, figs. 20-27.

1898 B, 400, pl. x, fig. 8.

Woodward, A. S. 1912 A (1911), 201, pl. xliii,
figs. 4-9 (Corax).

Upper Cretaceous; Europe: Eocene; Ala-
bama?

XENODOLAMIA Leidy. Type *X. pravus* Leidy.

Hay, O. P. 1902 A, 301 (Xiphodolamia); 309
(Xenodolamia).

Fowler, H. W. 1911 A, 25 (Xiphodolamia).

Jordan, D. S. 1923 A, 99 (Xenodolamia, Xipho-
dolamia).

Jordan and Hannibal 1923 A, 42, 45, 48, 58
(Xiphodolamia).

Leriche, M. 1905 A, 183 (Xenodolamia); 184
(Xiphodolamia).

1906 C, 199, figs. 42-48 (Xiphodolamia a
syn.).

Xenodolamia ensis Leidy.

Hay, O. P. 1902 A, 301 (Xiphodolamia).

Eastman, C. R. 1904 H, 77 (Xiphodolamia).

Fowler, H. W. 1911 A, 26, fig. 2 (Xiphodo-
lamia).

Upper Cretaceous (Manasquan, etc.); New
Jersey.

Xenodolamia pravus Leidy.

Hay, O. P. 1902 A, 309.

(Phosphate beds); South Carolina.

Xenodolamia simplex Leidy.

Hay, O. P. 1902 A, 309.

(Phosphate beds); South Carolina.

Superfamily GALEOIDÆ, new form.

Hay, O. P. 1902 A, 301 (Galeoidea).

Arlt, T. 1923 A, 484 ("galeoiden").

Beer, G. R. 1924 B, 60 (Scyllioidei).

Fowler, H. W. 1911 A, 29 (Galei).

Garman, S. 1913 A, 10, 12 (Carcharinoidei).

Gill, T. 1873 F, 12 (Galeorhinoidea).

1882 A, 967 (Anarthri or Galei).

1885 A, lxiv (Anarthri).

Goodrich, E. S. 1909 A, 148 (Scyllioidei).

Gregory, W. K. 1907 D, 446 (Scylliorhinoidea).

Jordan, D. S. 1905 A, I, 525; II, 558 (Astero-
spondyli).

1907 B, 186, 189, 758 (Astrospondyli, Galei).

1923 A, 100 (Galeoidei).

Pompeckj, J. F. 1913 A, 1127 (Galeoidei).

Rauther, M. 1913 A, 1098 (Galeoidei).

Regan, C. T. 1906 A, 723, 741 (Galeoidei).

1908 D, 347 (Galeoidei).

Ridewood, W. G. 1921 A, 313 (Galeoidei).

Van Wijhe, J. W. 1922 A, 291 (Galeoidei).

GINGLYMOSTOMIDÆ Gill.

Gill, T. 1872 C, 24.

Hay, O. P. 1902 A, 310 (Ginglymostominæ).

Fowler, H. W. 1911 A, 29 (Ginglymostomidæ).

Garman, S. 1913 A, 43 (Orectolobidæ).

Gill, T. 1862 A, 406 (Ginglymostomatoidæ).

Goodrich, E. S. 1909 A, 149 (Orectolobinæ).

Jordan, D. S. 1905 A, i, 533 (Ginglymostomidæ).

Jordan, D. S. 1907 B, 190, 758 (Ginglymostomi-
dæ).

1923 A, 98 (Ginglystomidæ, *errore?*).

Mayer, P. 1886 A, 275 ("scylliolamniden").

Radcliffe, L. 1916 A, 248 (Orectolobidæ).

Regan, C. T. 1906 A, 723 (Orectolobidæ).

Stromer, E. 1905 C, 165, 179 (Scylliolamnidae).

Zittel, K. A. 1890 A, 80 (Scylliolamnidae).

GINGLYMOSTOMINÆ Gill.

Hay, O. P. 1902 A, 310.

GINGLYMOSTOMA Müller and Henle. Type *Squalus cirratus* Gmelin.

Hay, O. P. 1902 A, 310.

Arlt, T. 1923 A, 485.

Bridge, T. W. 1904 A, 447.

Duméril, A. 1856 A, 121 ("ginglymostome").

Fowler, H. W. 1911 A, 30.

Garman, S. 1913 A, 43, 54.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1919 C, 190.

1923 A, 98.

Jordan and Gilbert 1882 A, 18.

Leriche, M. 1906 C, 415.

Mayer, P. 1886 A, 275.

Müller and Henle 1838 A, 35.

Priem, F. 1904 A, 288.

1908 B, 94, fig. 51.

1914 A, 121.

Radcliffe, L. 1916 A, 248, pl. xxxix.

Regan, C. T. 1906 A, 736, fig. 116.

1908 D, 348, 350.

Ridewood, W. G. 1921 A, 342, 366, fig. 18.

Schlosser, M. 1917 A, 143.

Stromer, E. 1905 C, 165.

Zittel and Schlosser 1923 A, 56, fig. 79.

Ginglymostoma obliquum (Leidy).

Hay, O. P. 1902 A, 310.

Fowler, H. W. 1911 A, 30, fig. 4.

Eocene; New Jersey.

Ginglymostoma serra (Leidy).

Hay, O. P. 1902 A, 310.

Eocene; South Carolina.

SCYLIORHINIDÆ Regan.

Regan, C. T. 1906 A, 723, 741, 745.

Unless otherwise indicated the authors, as quoted, use for this family the name Scylliidæ.

Hay, O. P. 1902 A, 310 (Scylliorhinidæ).

Allis, E. P. 1913 A, 322.

1914 A, 359.

1923 B, 145.

1926 B, 338.

Arlt, T. 1907 D, 283 (Scyllidæ).

1923 A, 486 ("scylliorhiniden").

Bonaparte, C. L. 1840 A, 46 (Scyllini).

Braus, H. 1899 A, 521 ("scyllidæ").

1906 A ("scylliiden").

Bridge, T. W. 1904 A, 446.

Carus, V. 1875 A, 601.

Cope, E. D. 1891 N, 17 (Scyllidæ).

Cunningham, J. T. 1912 A, 246.

Dollo, L. 1889 F, 341.

1904 C, 50.

Fitzinger, L. J. 1873 A, 55 (Scyllia).

Gegenbaur, C. 1870 B, 449 ("scyllien").

Gill, T. 1905 A, 658 (Scylliorhinidæ).

Müller and Henle 1838 A, 34 (Scyllia).

Goodrich, E. S. 1909 A, 149 (Scylliorhinidæ).

Gregory, W. K. 1907 D, 446 (Scylliorhinidæ).

Günther, A. C. 1881 A, 685.

Hay, O. P. 1901 B, 67 (Scylliorhinidæ).

Huber, O. 1901 A, 612 (Scyllidæ).

Imms, A. D. 1905 A, 44.

Jordan, D. S. 1905 A, I, 532; II, 591 (Scylliorhinidæ).

1907 B, 189, 758 (Scylliorhinidæ).

Jordan, D. S. 1923 A, 98 (Scylliorhinidæ).

Jordan and Gilbert 1882 A, 17, 58.

Kingsley, J. S. 1885 A, 83.

Kryzanovsky, S. 1916 A, 235 (Pristiurus).

Leigh-Sharpe, W. H. 1926 A, 339.

Leunis and Ludwig 1883 A, 785.

Mayer, P. 1886 A, 253, 273.

Owen, R. 1868 A, 13.

Pompeckj, J. F. 1913 A, 1127.

Priem, F. 1904 A, 288 (Scyllidæ).

1908 B, 95 ("scyllidés").

Rabinerson, A. 1925 A, 436, 453 ("scylliiden").

Rabl, C. 1901 A, 523 ("scyllien").

Rauther, M. 1913 A, 1098.

Regan, C. T. 1906 A, 723, 741, 745 (Scylliorhinidæ).

1908 A, 453 (Scylliorhinidæ).

1912 A, 837 (Scylliorhinidæ).

Ridewood, W. G. 1921 A, 362.

Roth, W. 1911 A, 534.

Sagemehl, M. 1883 A, 225 ("scyllien").

Schlosser, M. 1917 A, 137, 139, 141 ("scylliden").

Schmalhausen, J. J. 1913 C (Scyllidæ).

Stromer, E. 1905 C, 164, 179.

1912 A, 19.

Van Wijhe, J. W. 1922 A, 292 (Scyllidæ).

Wallace, A. R. 1876 A, ii, 461 (Scyllidæ).

White, J. W. 1905 A, 321 (Scyllidæ).

Woodward, A. S. 1898 B, 46 (Scyllidæ).

1912 A (1911), 193.

Zittel and Koken 1911 A, 50 (Scyllidæ).

Zittel and Schlosser 1923 A, 56 (Scyllidæ).

SCYLIORHININÆ new form.

Hay, O. P. 1902 A, 310 (Scylliorhininæ).

Gill, T. 1862 A, 407 (Scylliorhininæ).

Goodrich, E. S. 1909 A, 149 (Scylliorhininæ).

SCYLIORHINUS Blainville. Type *Squalus canicula* Lacepède.

Unless otherwise indicated the authors, as quoted, use the name *Scyllium* for this genus.

Blainville, H. M. D. 1816, Bull. Soc. Philomat., 121 (Scylliorhinus).

Hay, O. P. 1902 A, 310 (Scylliorhinus).

Abel, O. 1919 A, 29, 107, figs. 6, 66.

Allis, E. P. 1915 A.

1917 A, 108.

1926 A, 164.

Arlt, T. 1923 A, 486 (Scyllium, Scylliorhinus).

Beer, G. R. 1922 A, 459.

1924 C, 289, figs. 1-4, 5-10.

Bolk, L. 1914 A, 4.

Braus, H. 1906 A.

Bridge, T. W. 1904 A, 446, 755.

Bronn, H. T. 1848 B, 112.

1849 A, 645.

Cartier, O. 1875 A, 67, pl. iv, fig. 3.

Cunningham, J. T. 1912 A, 244.

Daniel, J. F. 1922 A, figs. 21b, 22, 72, 77, 142.

Davidoff, M. 1879 A.

Derjugin, K. 1910 A, 587.

Dombrowsky, B. A. 1918 A, 199, fig. 2.

Duméril, A. 1856 A, 120 ("roussette").

Edgeworth, F. H. 1907 A, 524.

1925 A, 238, figs. 1-20.

1926 A, 176, fig. 1.

Elliot, A. I. M. 1907 A, 648.

Fahrenheit, C. 1915 A, 400.

Fürbringer, K. 1902 A, 158.

1903 A, 393.

Garman, S. 1913 A, 3 (Scylliorhinus); 71 (Catus in part); 96 (Aristurus).

Gaupp, E. 1905 D, 880.

Gegenbaur, C. 1870 B, 450, pl. xv, figs. 4-6.

1870 C, 407.

Gibian, A. 1912 A.

Giebel, C. G. 1855 A, 117.

- Goodrich, E. S. 1904 A, 484, fig. 1.
 1906 A, 345, figs. 1-3.
 1909 A, 149, 516, fig. 1.
 1918 A, 1, pls. i, ii; text-fig. 1.
- Haller, G. 1923 A, 96, fig. 20.
- Hay, O. P. 1901 B, 67 (*Scylliorhinus*).
- Heilprin, A. 1887 A, 294, 299, 300.
- Huber, O. 1901 A, 612.
- Huxley, T. H. 1876 E, 113, fig. 10.
- Ihering, H. 1878 A, 74.
- Jacobshagen, E. 1923 A, 178.
- Jackel, O. 1901 A, 552.
 1909 D, 722.
- Jordan, D. S. 1907 B, 190 (*Scylliorhinus*).
 1923 A, 98 (*Scylliorhinus*).
- Jordan and Gilbert 1882 A, 58, 869 (*Scylliorhinus*).
- Jordan and Evermann 1917 A, 95 (*Scylliorhinus*).
- Killian, G. 1891 A, 85, figs. 1-24.
- Kingsbury, B. F. 1926 A, 98-104 (*Scyllium*).
- Kingsley, J. S. 1925 A, 228, fig. 241.
- Klaatsch, H. 1890 A, 120, 175, pls. vi, vii.
- Kner, R. 1860 B, 816.
- Leigh-Sharpe, W. H. 1921 A, 359.
 1926 A, 322, 339, figs. 1-10.
- Leriche, M. 1906 C, 421.
- Leunis and Ludwig 1883 A, 785.
- Lubosch, W. 1909 A, 3.
- Matthes, E. 1921 A, 216.
- Mayer, P. 1886 A, 224.
- Meek, A. 1916 A, 39, 40 (*Scylliorhinus*).
- Mivart, St. G. 1878 B, 311, 332.
- Müller and Henle 1838 A, 34.
- Norman, E. W. 1926 A, 413 (*Scylliorhinus*).
- Owen, R. 1845 B, 27, 29.
 1848 B, 87.
 1866 A, 33, 35.
- Pouehet, G. 1878 A, 148, pl. iv.
- Priem, F. 1908 B, 77, 106.
- Probst, J. 1886 B, 308.
- Rabinerson, A. 1925 A, 436, 520, 561.
- Rabl, C. 1892 A, 109.
 1901 A, 523.
- Regan, C. T. 1906 A, 730, 735 (*Scylliorhinus*).
 1908 A, 453 (*Scylliorhinus*).
- Reynolds, S. H. 1897 A, 71, 114, 119, 130, figs. 6-8.
- Ridewood, W. G. 1895 B, 425, fig. 1.
 1896 A, 383.
 1899 A, 47, figs. 1, 2.
 1921 A, 326, 328, 362, figs. 15, 16.
- Roth, W. 1911 A, 534, pls. vi, vii.
- Ryder, J. 1886 A, 74.
- Sabatier, A. 1898 A, 929.
 1903 B, 1217.
- Salensky, W. 1899 B, 304.
- Schauinsland, H. 1906 A, 395, fig. 1.
- Schmalhausen, J. J. 1912 A, 510.
 1913 B, 745.
 1913 C, pl. i.
 1916 C, 214, fig. 6.
- Sežerov, S. 1911 A, 8, pl. i.
- Sewertzoff, A. N. 1926 D, 87, fig. 16.
- Sewertzoff and Disler 1924 A, 347 (*Scylliorhinus*).
- Shann, E. W. 1919 A, 533.
- Solger, B. 1880 B, 466.
- Stannius, H. 1854 A, 89.
- Steinhard, O. 1903 A, 16.
- Tomes, C. S. 1876 A, 266, pl. xxxi.
 1898 B, 444.
- Van Wijhe, J. W. 1922 A, 276, 291.
- White, J. W. 1905 A, 319.
- White, P. J. 1896 A, 158.
- Williston, S. W. 1905 B, 347 (*Scylliorhinus*).
- Woodward, A. S. 1912 A (1911), 194.
- Ziegler, H. E. 1923 A, 66, fig. 3.
- Zittel and Schlosser 1923 A, 56, fig. 78.
- Scylliorhinus? gracilis (Willist.).**
 Hay, O. P. 1902 A, 310 (*Scylliorhinus*).
 Merrill, G. P. 1907 A, 20 (*Scylliorhinsis*).
 Cretaceous (Greenleaf); Kansas.
- Scylliorhinus planidens (Willist.).**
 Hay, O. P. 1902 A, 310 (*Scylliorhinus*).
 Merrill, G. P. 1907 A, 20 (*Scylliorhinsis*).
 Cretaceous (Greenleaf); Kansas.
- Scylliorhinus rugosus (Willist.).**
 Hay, O. P. 1902 A, 310 (*Scylliorhinus*).
 Merrill, G. P. 1907 A, 20 (*Scylliorhinsis*).
 Cretaceous (Greenleaf); Kansas.

GALEIDÆ Hoernes ?

- Hoernes, R. 1886 A, 542 (earliest?).
- Hay, O. P. 1902 A, 310 (*Galeidæ*).
- Abel, O. 1919 A, 121 (*Carchariidæ*).
- Allis, E. P. 1914 A, 359 (*Carchariidæ*).
- Arlt, T. 1923 A, 486 ("carchariiden").
- Braus, H. 1906 A, 182 ("carchariiden").
- Bridge, T. W. 1904 A, 448 (*Carchariidæ*).
- Carus, V. 1875 A, 600 (*Carchariidæ*).
- Dollo, L. 1889 F, 342 (*Carchariidæ*).
 1904 C, 48 (*Carchariidæ*).
- Eastman, C. R. 1901 B, 108 (*Carchariidæ*).
- Fahrenholz, C. 1915 A, 402 (*Carcharias*).
- Fitzinger, L. J. 1873 A, 55 (*Galei*).
- Fowler, H. W. 1911 A, 66 (*Galeorhinidæ*).
- Gill, T. 1872 A, 24 (*Galeorhinidæ*).
- Goodrich, E. S. 1909 A, 150 (*Carchariidæ*).
- Gregory, W. K. 1907 D, 447 (*Galeidæ*).
- Hay, O. P. 1901 B, 67 (*Galeidæ*).
- Hoernes, R. 1886 A, 541 (*Carchariidæ*); 542 (*Galeidæ*).
- Huber, O. 1901 A, 624 (*Galeidæ*).
- Imms, A. D. 1905 A, 43 (*Carchariidæ*).
- Jordan, D. S. 1905 A, i, 540; ii, 561 (*Carchariidæ*).
 1907 B, 197, 758 (*Carchariidæ*).
 1923 A, 100 (*Galeidæ*).
- Laaser, P. 1900 A, 480 (*Mustelus*).
- Leriche, M. 1906 C, 165 (*Carchariidæ*).
- Leunis and Ludwig 1883 A, 783 (*Carchariidæ*).
- Rabinerson, A. 1925 A (*Carchariidæ*).
- Radcliffe, L. 1916 A, 267 (*Galeorhinidæ*).
- Rauther, M. 1913 A, 1098 (*Carchariidæ*).
- Regan, C. T. 1906 A, 723, 746 (*Carchariidæ*).
- Ridewood, W. G. 1895 B, 429 (*Carchariidæ*).
 1921 A, 313, 330, 351, 395 (*Carchariidæ*).
- Schlosser, M. 1917 A, 145 ("carchariiden").

Schmalhausen, J. J. 1913 A, 24 (Carchariidæ).
 Steinman, G. 1907 A, 401 (Carchariidæ).
 Stromer, E. 1905 C, 174, 180 (Carchariidæ).
 Terra, P. 1911 A, 201 (Galeidæ, Carchariidæ).

Woodward, A. S. 1889 I, 12 (Carchariidæ).
 Zittel and Koken 1911 A, 51 (Carchariidæ).
 Zittel and Schlosser 1923 A, 56 (Carchariidæ).

GALEINÆ Jordan and Evermann.

Jordan and Evermann 1896 A, 27.

GALEUS Rafinesque. Type *Squalus mustelus* Linn.

Rafinesque, C. S. 1910, Car. Alc. Nuov. Gen., 13.
 Hay, O. P. 1902 A, 312 (Galeorhinus).
 Abel, O. 1919 A, 121, fig. 80.
 Allis, E. P. 1913 A, 326.
 1922 B, 198.
 1923 B, 145.
 Arltdt, T. 1923 A, 486.
 Beer, R. G. 1922 A, 471.
 Bridge, T. W. 1904 A, 449.
 Davidoff, M. 1879 A.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 126 ("milandre").
 Edgeworth, F. H. 1926 A, 189.
 Fahrenholz, C. 1915 A, 402.
 Garman, S. 1913 A, 169 (Galeorhinus).
 Gaupp, E. 1905 D, 884.
 Gegenbaur, C. 1870 C, 407.
 Gibian, A. 1912 A, 60.
 Haswell, W. A. 1884 A, 84.
 Hay, O. P. 1901 B, 67 (Galeorhinus).
 Imms, A. D. 1905 A, 44.
 Jacobshagen, E. 1923 A, 176.
 Jordan, D. S. 1905 A, i, 541.
 1917 A, 78.
 1923 A, 100.
 Jordan and Beal 1913 A, 247.
 Jordan and Evermann 1917 A, 78.
 Jordan and Gilbert 1882 A, 21 (Galeorhinus).
 Leigh-Sharpe, W. H. 1921 A, 359, figs. 1-4
 (Galeorhinus).

Leigh-Sharpe, W. H. 1926 A, 340.
 Leydig, F. 1852 A.
 Locy, W. A. 1894 A, 171.
 Müller and Henle 1838 A, 36.
 Nauck, E. T. 1926 B, 78, fig. 18.
 Owen, R. 1845 B, 24, 35, 39.
 1848 B, 87.
 Priem, F. 1904 A, 291.
 1908 B, 97.
 Rabinerson, A. 1925 A, 520.
 Radcliffe, L. 1916 A, 267, fig. 19.
 Reynolds, S. H. 1897 A, 108, 118, fig. 15.
 Ridewood, W. G. 1895 B, 432.
 1899 A, 52.
 Sečerov, S. 1911 A, 8, 10, pl. i.
 Stannius, H. 1854 A.
 Steinhard, O. 1903 A, 17, 34 (Galeorhinus).
 Stromer, E. 1925 A, 20.
 Tones, C. S. 1898 B, 446, pl. xvii.
 Weiler, W. 1922 A, 103, pls. i, ii.
 Whitehouse, R. H. 1910 C, 138.
 Williamson, W. C. 1851 A, 676.
 Woodward, A. S. 1889 I, 12.
 Zittel and Schlosser 1923 A, 56.

Galeus sp. indet.

Hay, O. P. 1902 A, 312 (Galeorhinus).
 Woodward, A. S. 1889 D, 456 (Galeus).
 Eocene; Alabama.

GALEORHININÆ Gill.

Gill, T. 1862 A, 399, 409 (earliest?).
 Hay, O. P. 1902 A, 311.
 Goodrich, E. S. 1909 A, 151 (Carchariinæ).

Jordan and Evermann 1896 A, 27.
 Jordan and Gilbert 1882 A, 19.

GALEOCERDO Müller and Henle. Type *G. tigrinus* M. and H.

Hay, O. P. 1902 A, 311.
 Agassiz, L. 1874 A, 131.
 Allis, E. P. 1909 A, 202 (Galeus).
 1915 A, 584 (Galeus).
 1919 C, 257 (Galeus).
 Ameghino, F. 1906 A, 186.
 Bassani, F. 1891 A, 35.
 Bronn, H. G. 1848 A, 52 (Galeocerdo); 524
 (Galeus).
 1849 A, 644.
 Coulon, L. 1903 A, 129.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 129.
 Eastman, C. R. 1901 B, 109.
 Fowler, H. W. 1911 A, 66.
 Garman, S. 1913 A, 148.
 Giebel, C. G. 1855 A, 117.
 Hay, O. P. 1901 B, 67.
 Heilprin, A. 1887 A, 297, 300.

Jordan, D. S. 1905 A, i, 541; ii, 571.
 1907 B, 198.
 1919 B, 192.
 1923 A, 100.
 Jordan and Gilbert 1882 A, 21.
 Jordan and Hannibal 1923 A, 38.
 Klaatsch, H. 1890 A, 121.
 Lawley, R. 1881 A, pls.
 Leriche, M. 1906 C, 415.
 1910 D, 295, fig. 95 (Galeus); 301 (Galeo-
 cerdo).
 Mayer, P. 1886 A, 275.
 Müller and Henle 1838 A, 36.
 Priem, F. 1908 B, 80, 108.
 Radcliffe, L. 1916 A, 250, 261, pl. xlii; text-fig.
 16.
 Regan, C. T. 1906 A, 736, fig. 116.
 Ridewood, W. G. 1896 A, 383, 386.
 1921 A, 353.

Stromer, E. 1905 C, 174, 180.
1925 A, 20.

Terra, P. 1911 A, 201, fig. 51.

Weidenreich, F. 1926 A, 46.

Weiler, W. 1922 A, 103, pl. i.

Winckler, T. C. 1876 A, 11.

Woodward, A. S. 1889 I, 12.

Zittel and Koken 1911 A, 51.

Zittel and Schlosser 1923 A, 56.

Galeocерdo aduncus Agassiz.

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 185, 259.

1908 B, 485, figs. o, u.

Bassani, F. 1891 A, 36, pl. i, fig. 4; pl. ii, fig. 20.

Eastman, C. R. 1904 H, 88; pl. xxxii, fig. 11.

Fowler, H. W. 1911 A, 67, figs. 30, 31.

Gervais, P. 1852 A, explan. pl. lxxiv, fig. 8.

1859 A, 520, pl. lxxiv, fig. 8.

Jordan, D. S. 1910 B, 182.

Leriche, M. 1906 A, 308.

Priem, F. 1912 A, 215, 219, 228, 239.

Shattuck, G. B. 1904 A, xcvi.

Upper Cretaceous (Manasquan, etc.); New Jersey: Miocene (Calvert); Maryland: (Kirkwood); New Jersey.

Galeocерdo contortus Gibbes.

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 182, pl. ii, figs. 26, 27.

Eastman, C. R. 1904 H, 87, pl. xxxii, fig. 9.

Fowler, H. W. 1911 A, 69, fig. 32.

Shattuck, G. B. 1904 A, xcvi.

Stromer, E. 1905 C, 176.

Upper Cretaceous (Manasquan); New Jersey: Miocene (Calvert and Choptank); Maryland.

Galeocерdo crassidens Cope.

Hay, O. P. 1902 A, 311.

Upper Cretaceous (Niobrara); Kansas.

Galeocерdo laevissimus Cope.

Hay, O. P. 1902 A, 311.

Eastman, C. R. 1904 H, 84, pl. xxxii, fig. 2 (Carcharias).

Shattuck, G. B. 1904 A, xcvi (Carcharias).

Miocene (Calvert); Maryland.

Galeocерdo latidens Agassiz.

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 182, pl. ii, figs. 24, 25.

1908 B, 485, figs. a, e, i.

Coulon, L. 1903 A, 130.

Clark and Miller 1912 A, 117, 118.

Eastman, C. R. 1901 B, 109, pl. xiv, fig. 8.

1904 H, 88, pl. xxxii, fig. 10.

Fowler, H. W. 1911 A, 70, fig. 33.

Gervais, P. 1859 A, 520, pl. lxxiv, fig. 7.

Hopkins, F. V. 1870 A, 93.

1871 A, 13.

Leriche, M. 1905 A, 77, 136, 190, pl. viii, figs. 19-28.

Leriche, M. 1906 B, 353, 355.

1906 C, 417 pl. xi, figs. 19-28.

Priem, F. 1906 A, 202, fig. 6.

1908 B, pl. iv, fig. 10.

Sellards, E. H. 1913 A, pl. vii, fig. 16 ("shark").

1915 D, 81, 98, fig. 28 ("Galeocерdo"), (This species?).

Shattuck, G. B. 1904 A, xcvi.

Stromer, E. 1903 A, 33, pl. i, fig. 7.

1905 C, 175, pl. xvi, figs. 10-15.

Woodward, A. S. 1889 I, 12, figs. 31, 32.

Eocene; Louisiana: Eocene (Nanjemoy); Maryland: Miocene; New Jersey: (Calvert and Choptank); Maryland.

Galeocерdo minor Agassiz.

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 259.

Bassani, F. 1891 A, 37.

Hopkins, F. V. 1871 A, 13.

Leriche, M. 1905 A, 77, 134, 190, 201, pl. viii, figs. 33-43 (Galeus).

1906 C, 418 (Galeus).

Priem, F. 1907 A, 317, figs. 1, 2 (Galeus).

Stromer, E. 1905 C, 175.

Tertiary; Europe: Eocene; Alabama, Louisiana.

Galeocерdo productus Agassiz.

Hay, O. P. 1902 A, 312.

Anderson, F. M. 1911 A, 101.

Blake, W. P. 1857 A, 171, 172, figs. 4, 5.

1866 A, 290.

Jordan, D. S. 1907 A, 101, 114, fig. 13; 110, figs. 4a-4c (This species?).

Jordan and Beal 1913 A, 245, 247.

Jordan and Gilbert 1919 A, 21.

Jordan and Hannibal 1923 A, 40 (Syn. of *Gyrace occidentalis*).

Leriche, M. 1908 C, 305 (*G. productus* Agassiz and *G. productus* Jordan 1907 A, 101, fig. 13 as syns. of *G. aduncus*).

Miocene (Monterey); California.

Galeocерdo subcrenatus Emmons.

Hay, O. P. 1902 A, 312.

North Carolina; formation unknown.

Galeocерdo triquetus Eastman.

Eastman, C. R. 1904 H, 89, pl. xxxii, fig. 12.

Shattuck, G. B. 1904 A, xcvi.

Miocene (Calvert); Maryland.

Galeocерdo sp. indet.

Hay, O. P. 1902 A, 312.

Cannon, G. L. 1890 B, 313, Upper Cretaceous (Niobrara); Colorado.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.

Hay, O. P. 1927 D, 274. Pleistocene; Florida.

Merrill, G. P. 1907 A, 11. Eocene; New Mexico.

Tuomey, M. 1848 A, 166, 180. Eocene; South Carolina.

GYRACE Jordan and Hannibal. Type *Scymnus occidentalis* Agassiz.

- Jordan and Hannibal in Jordan, D. S. 1923 A, 100.
 Jordan and Hannibal 1923 A, 38.
- Gyrace occidentalis** (Agassiz).
 Hay, O. P. 1902 A, 314 (Scymnorhinus).
 Anderson, F. M. 1911 A, 101 (Dalatias).
 Blake, W. P. 1857 A, 172 (Scymnus).
 Braus, H. 1899 A, 518 (Scymnus).
 Jordan, D. S. 1907 A, 118 (Dalatias).
 1919, in Jordan and Gilbert 1919 A, 17, 20, pl. vii, fig. G (Triakis beali).
- Jordan, D. S. 1923 A, 100 (To Gyrace).
 Jordan and Beal 1913 A, 245-253 (Dalatias).
 Jordan and Gilbert 1919 A, 23, 62 (Scymnorhinus); 17, 20, pl. vii, fig. g (Triakis beali).
 Jordan and Hannibal 1923 A, 40, 62, pl. ii, figs. b-f, l, m, q, cc.
 Klaatseh, H. 1890 A, 107, pl. vi (Scymnus).
 Leunis and Ludwig 1883 A, 787 (Scymnus).
 Mayer, P. 1886 A, 250 (Scymnus).
 Owen, R. 1866 A, 78 (Scymnus).
 Sečerov, S. 1911 A, 8 (Scymnus).
 Miocene (Monterey); California.

CARCHARHININÆ Jordan and Evermann.

- Hay, O. P. 1902 A, 312.
 Garman, S. 1913 A, 12 (Carcharinidæ).
 Goodrich, E. S. 1909 A, 151 (Carcharinæ).
- Mayer, P. 1886 A, 273, 275 (Carchariidæ).
 Radcliffe, L. 1916 A, 250 (Carcharhinidæ).

CARCHARHINUS Blainville. Type *C. commersonianus* Blainville.

- Hay, O. P. 1902 A, 312.
 Ameghino, F. 1906 A, 182 (Carcharias).
 Arldt, T. 1923 A, 486 (Carcharias).
 Bridge, T. W. 1904 A, 448, 734 (Carcharias).
 Bronn, H. G. 1849 A, 642 (Glyphis); 645 (Carcharias).
 Chapman, F. 1918 A, 8 (Carcharias).
 Davidoff, M. 1879 A (Carcharias).
 Duméril, A. 1856 A, 124 ("requin").
 Fahrenheit, C. 1915 A, 401 (Carcharias).
 Fowler, H. W. 1911 A, 74 (Glyphis).
 Garman, S. 1913 A, 4, 123 (Carcharinus).
 Gegenbaur, C. 1870 B, 451, pl. xv, figs. 9, 10 (Carcharias).
 1870 C, 405 (Carcharias).
 Hay, O. P. 1901 B, 67.
 Huber, O. 1901 A, 624, pl. xxvii (Carcharias).
 Jordan, D. S. 1905 A, i, 542; ii, 561 (Carcharias).
 1917 A, 95.
 1923 A, 100.
 1928 A, 1.
- Jordan and Beal 1913 A, 248.
 Jordan and Evermann 1917 A, 95.
 Jordan and Gilbert 1882 A, 22.
 Jordan and Hannibal 1923 A, 36.
 Leriche, M. 1906 C, 413 (Carcharias).
 Leunis and Ludwig 1883 A, 783 (Carcharias).
 Mayer, P. 1886 A, 246 (Carcharias).
 Müller and Henle 1838 A, 34 (Carcharias).
 Priem, F. 1904 A, 290 (Carcharias, Aprionodon).
 1908 B, 96 (Carcharias).
 Rabinerson, A. 1925 A, 440, fig. 2; 493 (Carcharias).
 Radcliffe, L. 1916 A, 250, 255, pls. xxxix-xli; text-figs. 12-14.
 Ridewood, W. G. 1921 A, 342, 355 (Carcharias).
 Rosenberg, E. 1887 A, 32 (Carcharias).
 Stromer, E. 1905 C, 176, 181 (Carcharias).
 Struck, W. 1915 A, 138, fig. 5 (Carcharias).
 Tomes, C. S. 1898 B, 444, 449, pl. xviii (Carcharias).
 1898 C, 344 (Carcharias).
 White, J. W. 1905 A, 320 (Carcharias).
- Williamson, W. C. 1851 A, 677, pl. xxxi, figs. 33-36.
 Zittel and Koken 1911 A, 51.
- Carcharhinus (Prionace) antiquus** (Agassiz).
 Hay, O. P. 1902 A, 312.
 Anderson, F. M. 1911 A, 101 (Carcharias).
 Blake, W. P. 1857 A, 172 (Prionodon).
 1866 A, 290 (Prionodon).
 Eastman, C. R. 1904 H, 85 (Prionodon).
 Jordan, D. S. 1907 A, 103, fig. 5 (Carcharias); 105, fig. 4 (Galeus zygopterus?).
 Jordan and Beal 1913 A, 245, 248 (C. antiquus); 245, 247, fig. a (Galeorhinus hannibali).
 Jordan and Gilbert 1919 A, 21 (C. antiquus); 21, 62 (Galeorhinus hannibali).
 Jordan and Hannibal 1923 A, 36, 62, pl. ii, figs. c, k, j, p.
 Miocene; California.
- Carcharhinus collatus** (Cope).
 Cope, E. D. in Eastman, C. R. 1904 H, 85 (Sphyrna).
 Eastman, C. R. 1904 H, 85, pl. xxxii, figs. 3-5 (Carcharias).
 Leriche, M. 1906 A, 305 (Carcharias. This species?).
 Miocene (Calvert and Choptank); Maryland: Neocene; France.
- Carcharhinus (Prionace) egertoni** (Agassiz).
 Hay, O. P. 1902 A, 312.
 Ameghino, F. 1906 A, 182, 185, 259 (Carcharias).
 Eastman, C. R. 1904 H, 84, pl. xxxii, fig. 1 (Carcharias).
 Dall and Harris 1892 A, 73 (Galeocerdo).
 Fowler, H. W. 1911 A, 75, fig. 36 (Glyphis).
 Leriche, M. 1906 A, 306 (Carcharias).
 Shattuck, G. B. 1904 A, xcvi [Carcharias (Prionodon)].

Stromer, E. 1905 C, 177, pl. xvi, figs. 17-19 (Prionodon).

Upper Cretaceous (Manasquan, etc.); New Jersey: Miocene (Calvert); Maryland: (Kirkwood); New Jersey.

Carcharhinus (Aprionodon) gibbesii (Woodward).

Hay, O. P. 1902 A, 313.

Ameghino, F. 1906 A, 185, 259 (Carcharias gibbesi).

Fowler, H. W. 1911 A, 75 (Aprionodon).

Priem, F. 1911 B, 336 (Carcharias).

Eocene; South Carolina, Alabama.

Carcharhinus incidens Eastman.

Eastman, C. R. 1904 H, 87, pl. xxxii, fig. 8 (Carcharias).

Shattuck, G. B. 1904 A, xevi (Carcharias).

Middle Miocene (Calvert); Maryland.

MICRODUS Emmons.

Hay, O. P. 1902 A, 313.

Jordan, D. S. 1923 A, 100.

The type is an object of uncertain relationships.

HEMIPRISTIS Agassiz.

Hay, O. P. 1902 A, 313.

Arlt, T. 1923 A, 486.

Bassani, F. 1891 A, 38.

Bronn, H. G. 1848 A, 585.

1849 A, 645.

Coulon, L. 1903 A, 129.

Fowler, H. W. 1911 A, 71.

Giebel, C. G. 1855 A, 117.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 100.

Jordan and Beal 1913 A, 248.

Jordan and Hannibal 1923 A, 40.

Klaatsch, H. 1890 A, 121.

Stefano, G. 1912 A, 409.

Stromer, E. 1905 C, 174, 180.

Zittel and Koken 1911 A, 51.

Zittel and Schlosser 1923 A, 56, fig. 80.

Hemipristis chiconis Jordan.

Jordan, D. S. 1907 A, 105, fig. 7.

Jordan and Beal 1913 A, 245, 248.

Jordan and Hannibal 1923 A, 36, 61 (Notidanion?).

Cretaceous (Chico); California.

Hemipristis heteropleurus Agassiz.

Hay, O. P. 1902 A, 313.

Anderson, F. M. 1911 A, 101.

Blake, W. P. 1857 A, 171, 172, fig. 3.

1866 A, 290.

Jordan, D. S. 1907 A, 104, fig. 6.

1910 B, 182.

1919 B, 214.

Jordan and Beal 1913 A, 245, 248.

Jordan and Gilbert 1919 A, 21.

Jordan and Hannibal 1923 A, 40, 44, 62, pl. ii, figs. u, v, aa, bb.

Leriche, M. 1908 C, 305 (Syn. of H. serra).

Miocene (Monterey); California.

Carcharhinus magdalenæ Jordan and Hannibal.

Jordan and Hannibal 1923 A, 38, 63, pl. ii, figs. n, r, s; pl. iii, figs. aa, bb; pl. vi, fig. d.

Hay, O. P. 1927 D, 174.

Miocene (Monterey); Pleistocene? (Lomita); California.

Carcharhinus (Prionace) tenuis (Agassiz).

Hay, O. P. 1902 A, 313.

Senonian; Switzerland: Eocene?; South Carolina.

Carcharhinus sp. indet.

Hay, O. P. 1902 A, 313. Eocene; Alabama.

Tuomey, M. 1848 A, 166 ("Glyphis"). Tertiary; South Carolina.

Type M. lævis Emmons.

Microdus lævis Emmons.

Hay, O. P. 1902 A, 313.

Triassic; North Carolina.

Type H. serra Agassiz.

Hemipristis serra Agassiz.

Hay, O. P. 1902 A, 313.

Ameghino, F. 1906 A, 185, 259.

Bassani, F. 1891 A, 38, pl. i, fig. 15.

Blake, C. C. 1862 C, 316.

Clark and Miller 1912 A, 167, 168.

Coulon, L. 1903 A, 129 (H. serra, H. paucidens).

Dall, W. H. 1894 A, 297.

Dall and Harris 1892 A, 73 (Nemipristis, misprint).

Eastman, C. R. 1904 H, 90, pl. xxxii, figs. 13, 14.

Fowler, H. W. 1911 A, 71, figs. 34, 35.

Gervais, P. 1852 A, explan., pl. lxxiv.

1859 A, 519, pl. lxxiv.

Gorjanovič-Kramberger, D. 1891 A, 97.

Hay, O. P. 1922 B, 3.

Jordan, D. S. 1910 B, 182.

Jordan and Beal 1913 A, 248.

Jordan and Hannibal 1923 A, 40, 44 (Syn.? of H. heteropleurus).

Leriche, M. 1906 A, 309.

Mantell, G. A. 1844 A, 624, fig. 130.

Priem, F. 1912 A, 215, 219, 228, 239.

Sellards, E. H. 1913 A, pl. vii, fig. 12 ("shark").

1915 D, 99, fig. 26 ("Hemipristis").

Shattuck, G. B. 1904 A, xevi.

Stefano, G. 1912 A, 410, pls. xii, xiv.

Stromer, E. 1905 C, 178.

Tuomey, M. 1848 A, 166, 180 ("Hemipristis").

Upper Cretaceous (Manasquan, etc.); New Jersey: Miocene (Kirkwood); New Jersey: (Calvert); Maryland, Virginia, South Carolina: Miocene; Europe.

Hemipristis sp. indet.

Hay, O. P. 1902 A, 313. Eocene; South Carolina.

Sellards, E. H. 1915 D, 98, fig. 26. Pliocene (Bone Valley); Florida.

SPHYRNIDÆ Gill.

- Gill, T. 1872 B, 24.
 Hay, O. P. 1902 A, 314 (Sphyrninæ).
 Bridge, T. W. 1904 A, 449.
 Fowler, H. W. 1911 A, 77.
 Garman, S. 1913 A, 155 (Cestraciontidæ).
 Goodrich, E. S. 1909 A, 151 (Sphyrninæ).
 Huber, O. 1901 A, 626 (Zygænidæ).

- Jordan, D. S. 1905 A, i, 543.
 1907 B, 200, 758.
 1923 A, 101.
 Jordan and Gilbert 1882 A, 25.
 Kingsley, J. S. 1885 A, 80.
 Radeliffe, L. 1916 A, 263 (Cestraciontidæ).
 Regan, C. T. 1906 A, 746 (Sphyrninæ).
 Roth, W. 1911 A, 536 (Zygænidæ).

SPHYRNA Rafinesque. Type *Squalus zygæna* Linn.

- Rafinesque, C. S. 1910, Indice Ittiol. Sicil., 46, 60.
 Hay, O. P. 1902 A, 314.
 Abel, O. 1912 F, 518.
 Allis, E. P. 1915 A, 587.
 Arltdt, T. 1923 A, 486.
 Bassani, F. 1891 A, 40.
 Braus, H. 1906 A, 182.
 Bridge, T. W. 1904 A, 449, 756.
 Bronn, H. G. 1848 B, 1171.
 1849 A, 645.
 Cunningham, J. T. 1912 A, 284.
 Daniel, J. F. 1922 A, figs. 62, 96 (Zygæna).
 Duméril, A. 1856 A, 123 ("marteau").
 Eastman, C. R. 1901 B, 109.
 Fahrenheit, C. 1915 A, 402 (Zygæna).
 Fowler, H. W. 1911 A, 77.
 Fürbringer, K. 1903 A, 385.
 Garman, S. 1913 A, 155 (Cestracion).
 Giebel, C. G. 1855 A, 116.
 Gudger, E. W. 1907 A, 1005.
 Hay, O. P. 1901 B, 67.
 Huber, O. 1901 A, 626 (Zygæna).
 Imms, A. D. 1905 A, 43.
 Jordan, D. S. 1923 A, 101.
 Jordan and Evermann 1917 A, 82.
 Jordan and Gilbert 1882 A, 26, 874.
 Kingsley, J. S. 1925 A, 226, fig. 238 (Zygæna).
 Köstlin, O. 1844 A (Zygæna).
 Leriche, M. 1910 D, 298, fig. 96.
 Leunis and Ludwig 1883 A, 783 (Zygæna).
 Lloyd and Sheppard 1922 A, 971, figs. 1-7 (Zygæna).
 Mayer, P. 1886 A, 235 (Zygæna).
 Müller and Henle 1838 A, 35 (Zygæna).
 Owen, R. 1845 B, 30 (Zygæna).
 Rabinerson, A. 1925 A, 435, fig. 1; 491, fig. 3 (Zygæna).
 Rabl, C. 1901 A, 477.
 Radeliffe, L. 1916 A, 263, pls. xliii, xlv, text-figs. 17, 18 (Cestracion).
 Ridewood, W. G. 1899 A, 49 (Zygæna).
 1921 A, 355, fig. 8.
 Roth, W. 1911 A, 536, pls. vi, vii (Zygæna).
 Sauvage, E. 1867 A, 124 (Sphyrna).
 Sečurov, S. 1911 A, 8, 11, pl. i (Zygæna).
 Smith, H. M. 1916 A, 347.
 Stannius, H. 1854 A.
 Valenciennes, A. 1822 A, 222 (Zygæna).
 Wagner, R. 1843 A (Zygæna).
Sphyrna gibbesii Hay.
 Hay, O. P. 1902 A, 314.
 Fowler, H. W. 1911 A, 78, fig. 37.
 Upper Cretaceous; New Jersey.
Sphyrna lata Agassiz.
 Hay, O. P. 1902 A, 314.
 Tertiary; Virginia: Eocene; South Carolina.
 Identification doubtful.
Sphyrna magna Cope.
 Hay, O. P. 1902 A, 314.
 Eastman, C. R. 1904 H, 86, pl. xxxii, figs. 6, 7 (Carcharias).
 Shattuck, G. B. 1904 A, xcvi (Carcharias).
 Miocene (Calvert); Maryland.
Sphyrna prisca Agassiz.
 Hay, O. P. 1902 A, 314.
 Ameghino, F. 1906 A, 185, 259 (Sphyrna).
 Bassani, F. 1891 A, 41, pl. ii, fig. 19.
 Clark and Miller 1912 A, 117, 118.
 Eastman, C. R. 1901 B, 110, pl. xiv, figs. 7a, 7b.
 1904 H, 91, pl. xxxii, fig. 15.
 Fowler, H. W. 1911 A, 75, 78, fig. 38.
 Gorjanovič-Kramberger, D. 1891 A, 97, pl. viii, fig. 17 (This species?).
 Jordan, D. S. 1907 B, 200.
 Leriche, M. 1906 A, 307.
 1907 A, 354, pl. iii, figs. 5-8.
 Priem, F. 1904 A, 289, figs. 6, 7.
 1912 A, 216, 217, 228, 240, fig. 1.
 1914 A, 123, text-fig. 12.
 Sauvage, E. 1867 A, 125 (Sphyrna).
 Shattuck, G. B. 1904 A, xevi.
 Miocene; Europe: Eocene; South Carolina: Eocene (Aquia); Maryland: Miocene (Calvert); Maryland.

Superfamily SQUALOIDÆ, new form.

- Arltdt, T. 1923 A, 486 ("squaloiden").
 Garman, S. 1913 A, 13 (Squaloidei).
 Goodrich, E. S. 1909 A, 151 (Squaliformes).
 Hay, O. P. 1902 A, 314 (Squaloidea).
 Jaekel, O. 1911 A, 62 (Spinacidi).
 Jordan, D. S. 1905 A, i, 543; ii, 595 (Teetospondyli).
 Jordan, D. S. 1907 B, 200, 758 (Teetospondyli);
 202 (Cyclospondyli).
 1923 A, 101 (Squaloidei).
 Jordan and Gilbert 1882 A, 12 (Scymnoidea).
 Rauther, M. 1913 A, 1098 (Squaloidei).
 Regan, C. T. 1906 A, 723 (Squaloidei).
 Stromer, E. 1905 C, 164 (Squaloidei).
 Van Wijhe, J. W. 1922 A, 291 (Squaloidei).

SQUALIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 99.
Hay, O. P. 1902 A, 314 (Somniosidæ, in part).
Abel, O. 1919 A, 123 (Spinacidæ).
Allis, E. P. 1914 A, 359 (Spinacidæ).
 1923 B (Spinacidæ, Acanthias).
Arlt, T. 1923 A, 487 ("squaliden").
Bridge, T. W. 1904 A, 454 (Spinacidæ).
Brohner, P. 1908 A, 25 (Spinax).
Gill, T. 1905 A, 658.
Goodrich, E. S. 1909 A, 151 (Spinacidæ).
Günther, A. C. 1870 A, 417 (Spinacidæ).
 1880 A, 330 (Spinacidæ).
Jaekel, O. 1911 A, 62 (Spinacidæ).
Jordan, D. S. 1905, i, 545; ii, 598.
 1907 B, 202.
 1923 A, 101.
Laaser, P. 1900 A, 480, figs. 1-8 (Spinax, Acanthias).
Rabinerson, A. 1925 A, 444, 517 ("spinaciden").
Radeliffe, L. 1916 A, 267.
Rauther, M. 1913 A, 1098 (Spinacidæ).
Regan, C. T. 1906 A, 723.
 1908 B, 39.
Ridewood, W. G. 1921 A, 371 (Squalinæ).
Schlosser, M. 1917 A, 139 ("spinaciden").
Sewertzoff, A. N. 1923 B (Spinacidæ).
Stannius, H. 1854 A.
Woodward, A. S. 1889 D, 30 (Spinacidæ).
 1898 B, 50 (Spinacidæ).
Zittel, K. A. 1890 A, 87 (Spinacidæ).
Zittel and Koken 1911 A, 49 (Spinacidæ).
Zittel and Schlosser 1923 A, 55 (Spinacidæ).

SQUALUS Linnæus. Type *S. acanthias* Linn.

- Linnæus, C.* 1758 A, 233.
Allis, E. P. 1920 A, 222, pls. xxiii-xxv (Acanthias).
 1922 C, 2.
 1926 A, 164 (Acanthias).
Arlt, T. 1923 A, 487.
Beer, G. R. 1922 A, 457, figs. 1-13.
 1924 B, 53.
 1926 A, 275, 285, figs. 8-10, 125-128.
Bridge, T. 1904 A, 455, 729 (Acanthias).
Daniel, J. F. 1922 A, many figs. (Squalus, Acanthias).
Edgeworth, F. H. 1925 A, 237, figs. 21-23 (Acanthias).
Evans, H. M. 1923 A, 8, 27, pl. i, fig. 4; pl. ii, figs. 5, 6; text-figs. 5-7 (Acanthias).
Gaupp, E. 1905 D, 875 (Acanthias).
Gill, T. 1862, Proc. Acad. Nat. Sci. Phila., 496 (Entoxychirus).
Goodrich, E. S. 1918 A, 13 (Acanthias).
Günther, A. C. 1880 A, 331 (Acanthias).
Haller, G. 1923 A, 96, figs. 4-6, 9-11, 15-17, 19 (Acanthias).
 1924 A, 313, fig.
 1926 A, 452, fig. 2 (Acanthias).
Hommel, J. H. 1924 A, 23, 29, fig. 19 (Acanthias).
Jordan, D. S. 1905 A, i, 545.
 1907 B, 202.
 1917 A, 11.
Jordan and Evermann 1896 A, 53.
Jordan and Gilbert 1882 A, 17.
Jordan and Hannibal 1923 A, 58.
Kingsbury, B. F. 1926 A, 89, 98, 104.
Kingsbury and Adelman 1924 A, 344, figs. 3, 4.
Leigh-Sharpe, W. H. 1926 A, 340 (Acanthias).
Lubosch, W. 1909 A, 2, figs. 1, 2, 7 (Acanthias).
Mori, O. 1924 A, 389 (Acanthias).
Nauck, E. T. 1926 B, 30, figs. 1-5, 17, 18 (Acanthias).
Norman, E. W. 1926 A, 412 (Acanthias).
Owen, R. 1848 B, 87 (Acanthias).
 1866 A, 32, 35, 486 (Acanthias).
Pehrson, T. 1922 A, 9 (Acanthias).
Rabinerson, A. 1925 A, 437, fig. 2; 514, fig. 1.
Rafinesque, C. 1810, Caratteri, etc., 13.
Risso, A. 1826, Europe Merid, 1311 (Acanthias).
Sagemehl, M. 1883 A, 220 (Acanthias).
Sewertzoff and Disler 1924 A, 347 (Acanthias).
Stadt Müller, F. 1926 A, 160, fig. 6 (Acanthias).
Stannius, H. 1854 A (Spinax).
Van Wijhe, J. W. 1922 A, 271-278, pl. xi, text-figs. 1-4.
Woodward, A. S. 1889 D, 31 (Acanthias).
Ziegler, H. E. 1923 A, 68, figs. 6, 7 (Acanthias).
Zittel, K. A. 1890 A, 87 (Acanthias).
Zittel and Koken 1911 A, 50, fig. 71.
Zittel and Schlosser 1923 A, 55, fig. 76 (Acanthias).
***Squalus serriculus* Jordan and Hannibal.**
Jordan and Hannibal 1923 A, 58, 62, pl. iii, figs. m, p.
 Miocene (Monterey); California.

SCYMNORHINIDÆ Jordan and J. Z. Gilbert.

- Jordan and J. Z. Gilbert* 1919 A, 23 (earliest?).
Hay, O. P. 1902 A, 314 (Somniosidæ).
Abel, O. 1919 A, 123 (Spinacidæ).
Allis, E. P. 1914 A, 359 (Spinacidæ).
Bonaparte, C. L. 1831 A, 99 (Included all existing sharks).
 1840 A, 45 (Scymni).
Bridge, T. W. 1904 A, 454 (Spinacidæ).
Duméril, A. 1856 A, 135 (Scymni).
Garman, S. 1913 A, 242 (Echinorhinidæ).
Gill, T. 1905 A, 658 (Squalidæ).
Goodrich, E. S. 1909 A, 151 (Spinacidæ).
Huber, O. 1901 A, 604 (Scymnidæ).
Jaekel, O. 1911 A, 62 (Spinacidæ).
Jordan, D. S. 1905 A, i, 546 (Dalatiidæ); 547 (Echinorhinidæ).
 1907 B, 203, 758 (Dalatiidæ); 204, 758 (Echinorhinidæ).
 1923 A, 102.
Jordan and C. H. Gilbert 1882 A, 13 (Scymnidæ); 15 (Spinacidæ).
Jordan and J. Z. Gilbert 1919 A, 23 (Scymnorhinidæ, Echinorhinidæ).
Laaser, P. 1900 A, 480, figs. 1-8 (Spinax, Acanthias).
Radcliffe, L. 1916 A, 267 (Squalidæ).

Roth, W. 1911 A, 524 (Scymnidæ); 530 (Echinorhinidæ).
 Stannius, H. 1854 A (Spinaces, Scymnoidei).

SCYMNORHINUS Bonaparte.

At present no American species is included in this genus, *S. occidentalis* being referred to *Gyrace*.

Hay, O. P. 1902 A, 314.
 Allis, E. P. 1909 A, 202 (Scymnus).
 1914 A, 359 (Scymnus).
 1922 B, 197 (Scymnus).
 1923 B, 125 (Scymnus).
 Arltdt, T. 1923 A, 488 (Scymnus).
 Beer, G. R. 1926 A, 268, fig. 1 (Scymnus).
 Braus, H. 1901 B, 191 (Scymnus).
 Bronn, H. G. 1849 A, 641 (Scymnus).
 Danicl, J. F. 1922 A, fig. 107 (Scymnus).
 Derjugin, K. M. 1909 A, (Scymnus).
 Fürbringer, K. 1903 A, 366 (Scymnus).
 1904 B, 464, fig. 10 (Scymnus).
 Garman, S. 1913 A, 236.
 Gaupp, E. 1905 D, 875 (Scymnus).
 Goodrich, E. S. 1909 A, 80, 128, fig. 53.
 Haswell, W. A. 1884 A, 77 (Scymnus).
 Hay, O. P. 1901 A, 67.
 Hoffmann, L. 1912 A, 278 (Scymnus).
 Huber, O. 1901 A, 604, pl. xxvii (Scymnus).
 Ihering, H. 1878 A, 74 (Scymnus).
 Jordan, D. S. 1905 A, i, 546 (Dalatias).
 1907 B, 203 (Dalatias).
 1919 B, 225.
 1923 A, 102.

ECHINORHINUS Blainville.

Hay, O. P. 1902 A, 315.
 Arltdt, T. 1923 A, 488.
 Blake, W. P. 1857 A, 172.
 Fürbringer, K. 1903 A, 367.
 Garman, S. 1913 A, 243.
 Gaupp, E. 1905 D, 891, 894.
 Hay, O. P. 1901 B, 67.
 Jordan, D. S. 1923 A, 102.
 Jordan and Gilbert 1882 A, 14.
 Jordan and Hannibal 1923 A, 58.
 Müller and Henle 1838 A, 89 (Echinarrhinus).
 Regan, C. T. 1908 B, 39, 41.
 Ridewood, W. G. 1899 B, 346, fig.
 1921 A, 326, 373, fig. 23.

Zittel and Schlosser 1923 A, 56, figs. 3, 78 (Scyllidæ).

Type *Scymnus lichia* Cuvier.

Jordan and Gilbert 1919 A.
 1919 B.
 Klaatsch, H. 1890 A, 107, pl. vi (Scymnus).
 Lakjer, T. 1927 A, 221, fig. 79 (Scymnus).
 Leigh-Sharpe, W. H. 1926 A, 314, 349 (Scymnus).
 Leriche, M. 1906 C, 421 (Scymnus).
 Leydig, F. 1852 A (Scymnus).
 Luther, A. 1909 A, 21.
 Müller and Henle 1838 A, 89.
 Owen, R. 1839 G, 213 (Scymnus).
 1845 B, 25, 31, 34, pl. iv, fig. 3 (Scymnus).
 1866 A, 35, 78, 373, fig. 63 (Scymnus).
 Rabinerson, A. 1925 A, 437, fig. 2; 514, fig. 1 (Scymnus).
 Rauther, M. 1913 A, 1063, fig. 6 (Scymnus).
 Regan, C. T. 1908 B, 40, 54.
 Ridewood, W. G. 1895 B, 429.
 1899 A, 47 (Scymnus).
 1921 A, 373.
 Roth, W. 1911 A, 524, pl. vi, fig. 5 (Scymnus).
 Sewertzoff, A. N. 1923 B, fig. 1 (Scymnus).
 Stannius, H. 1854 A (Scymnus).
 Stromer, E. 1925 A, 20 (Scymnus).
 Van Wijhe, J. W. 1922 A, 291 (Scymnus).
 Versluys, J. 1922 B, 98 (Scymnus).
 Zittel and Schlosser 1923 A, 55, figs. 5, 77 (Scymnus).

Type *Squalus spinosus* Gmelin.

Stannius, H. 1854 A.
 Van Wijhe, J. W. 1922 A, 291.

Echinorhinus blakei Agassiz.

Hay, O. P. 1902 A, 315.
 Blake, W. P. 1857 A, 172.
 Jordan, D. S. 1907 A, 119.
 Jordan and Beal 1913 A, 253.
 Jordan and Gilbert 1919 A, 23.
 Jordan and Hannibal 1923 A, 57, pl. iv, figs. c, d.
 Miocene (Monterey); California.

Suborder RAJIFORMES Goodrich.

Goodrich, E. S. 1909 A, viii, 153.
 Hay, O. P. 1902 A, 315 (Rajæ).
 Agassiz, L. 1844 D, 142 ("rayes").
 1844 E, 332 ("rays").
 1854 A, 4 ("rays").
 Allis, E. P. 1905 A, 475 (Batoidei).
 1913 A, 327 (Batoidei).
 1915 A, (Batoidei).
 1918 B, 263 (Batoidei).
 1923 B, 140 (Batoidei).
 1925 A, 76 (Batoidei).
 Anonymous, 1898 A, 373 (Batoidea).
 Arltdt, T. 1907 D, 146 (Batoidei).
 1923 A, 488.
 Backman, G. 1913 A (Batoidei).
 1915 A (Rajæ).

Beer, G. R. 1924 B, 60 (Batoidea).
 Bessels, E. 1869 A, 153 ("rochen").
 Beyer, H. 1907 A, 266 ("rochen").
 Boas, J. E. V. 1914 B, 538 ("rochen").
 Bonaparte, C. L. 1833 A, 1203 (Raidæ).
 1838 C, 197, 201 (Rajidæ).
 Braus, H. 1899 A ("rochen").
 Bridge, T. W. 1904 A, 457 (Batoidei).
 1878 A, 706 (Batoidei).
 Brohl, E. 1909 A, 347 ("rochen").
 Bruch, C. 1862 A, 79 ("rochen").
 Cunningham, J. T. 1912 A, 246 (Batoidei).
 Cuvier, G. 1805 A ("raies").
 Dana, J. D. 1863 B, 317 ("rays").
 Dean, B. 1900 A, 22 (Batoidei).
 Dohrn, A. 1884 A ("rochen").

- Dollo, L. 1889 E, 152 ("raies").
 1904 C, 47 ("batoïdes").
 Duméril, A. 1856 A, 137 ("raies").
 Eichwald, E. 1832 A, 878 ("rochen").
 Eimer, G. H. F. 1901 A, 41 (Raji).
 Fahrenholz, C. 1915 A, 394, 404 ("rochen").
 Fitzinger, L. J. 1873 A, 56 (Hypochismata).
 Fowler, H. W. 1911 A, 80 (Batoidei).
 Fürbringer, M. 1902 A ("rochen").
 1903 A, 623 ("rochen").
 Garman, S. 1904 A, 246, 269 (Platosomia).
 1913 A, 10, 257.
 Gaupp, E. 1905 D, 868 ("rochen").
 Gegenbaur, C. 1870 C, 410 ("rochen").
 Geoffroy, St. Hilaire, E. F. 1807 C, 91 ("raies").
 Giebel, C. G. 1855 A, 117 (Rajacei).
 Gill, T. 1905 A, 657 (Batoidei).
 Goodrich, E. S. 1909 A, 153 (Rajiformes).
 Greene, J. R. 1861 A, 227 (Raiidæ).
 Gregory, W. K. 1907 D, 446 (Rajæ).
 Haeckel, E. 1868 A, 443 (Rajæ).
 1873 A, 516 (Rajacei).
 Haller, G. 1923 A, 101, figs. 2, 13 ("rochen").
 1926 A, 453 ("rochen").
 Hilzheimer, M. 1913 A, 470 (Batoidei).
 Hoeven, J. 1822 A (Rajæ).
 Humphreys, J. 1908 A, 11 ("rays").
 Inms, A. D. 1905 A, 45 (Batoidei).
 Jackel, O. 1911 A, 64 (Rhinoraji).
 1913 C, 36 ("rochen").
 Jordan, D. S. 1905 A, i, 519, 549 (Batoidei).
 1907 B, 206, 759 (Batoidei).
 1923 A, 102 (Batoidei).
 Jordan and Gilbert 1882 A, 36 (Raiae).
 Kehrer, F. A. 1896 A, 347 ("rochen").
 Killian, G. 1891 A, 103, fig. 25.
 Kingsley, J. S. 1885 A, 84 (Raiae).
 Köstlin, O. 1844 A, 425 ("rochen").
 Krivetski, A. 1917 A, 19 ("raies").
 Lavocat, A. 1885 A, 32 ("raies").
 1896 B, 194 ("raies").
 Leigh-Sharpe, W. H. 1926 A, 341 (Batoidei).
 Leunis and Ludwig 1883 A, 788 (Batoidei).
 Lümborg, W. 1902 A (Rajidæ).
 Lubosch, W. 1909 A, 4 ("rochen").
 Lütken, C. 1868 C (Rajae).
 M'Donnell, R. 1864 A, 163 ("rays").
 Mantell, G. A. 1844 A, 629 ("rays").
 Meckel, J. F. 1825 A ("rochen").
 Meek, A. 1916 A, 41 (Batoidei).
 Müller, J. 1845 A, 137 (Rajidæ).
 Müller and Henle 1838 A, 90 (Raiae).
 Owen, R. 1845 B, 43 (Raiidæ).
 1866 A, 13 (Batides).
 Parker and Haswell 1897 A, 156 (Rajida).
 Pompeckj, J. F. 1913 A, 1129 (Batoidei).
 Probst, J. 1886 B, 301 ("rochen").
 Rabl, C. 1892 A, 131 (Torpedo).
 1901 A, 484 (Rajae).
 Rafinesque, C. S. 1815 A, 93 (Platosomia).
 Rauther, M. 1913 A, 1098 (Batoidei).
 Regan, C. T. 1906 A, 723, 752 (Hypotremata).
 Reichert, K. B. 1849 A, 502 ("rochen").
 Ridewood, W. G. 1899 A, 52 ("rays").
 1921 A, 313 (Narcobatoidei; Batoidei).
 Röse, C. 1892 F, 399 ("rochen").
 1897 A, 58 ("rochen").
 Ryder, J. 1886 A, 72, 77 (Raiae).
 Sabatier, A. 1898 A, 930 ("raies").
 Schauinsland, H. 1906 A, 393 ("rajiden").
 Schlosser, M. 1917 A, 142 ("rochen").
 Schöenichen, W. 1900 A, 502 ("rochen").
 Sewertzoff, A. 1899 A, 197, 393 ("rochen").
 1926 D, 83 (Batoidei).
 Solger, B. 1880 B, 476 ("rochen").
 Sonies, F. 1907 A, 404 ("rochen").
 Steinmann, G. 1907 A, 404 (Batoidei).
 Stephan, P. 1900 A, 311 ("raies").
 Stromer, E. 1905 H, 216 ("rochen").
 1912 A, 20 (Batoidei).
 Wagner, R. 1843 A ("rochen").
 Weber, E. H. 1821 A, 1060.
 Wilbrand, J. B. 1824 A, 983 ("rochen").
 Williamson, W. C. 1851 A, 669 ("rays").
 Woodward, A. S. 1898 B, 40 (Batoidei).
 1922 C, 74 (Raii).
 Zittel and Schlosser 1923 A, 72 (Masticura).

Superfamily TAMIOBATOIDÆ, new name.

TAMIOBATIDÆ Hay.

- Hay, O. P. 1902 A, 315.
 Abel, O. 1919 A, 133.
 Arl'dt, T. 1923 A, 488 ("tamiobatiden").
 Bridge, T. W. 1904 A, 462.
 Gregory, W. K. 1907 D, 446.
 Hay, O. P. 1901 B, 67.
 Jordan, D. S. 1905 A, i, 532, 551.
 1907 B, 208, 758.
 1923 A, 95.
 Zittel and Woodward 1902 A, 41.

TAMIOBATUS Eastman. Type *T. vetustus* Eastman.

- Hay, O. P. 1902 A, 315.
 Abel, O. 1919 A, 133.
 Arl'dt, T. 1923 A, 488.
 Eastman, C. R. 1902 B, 71.
 1903 B, 170.
 1907 B, 65.
 Hay, O. P. 1901 B, 67, 73.
 Jordan, D. S. 1923 A, 95.
 Stromer, E. 1905 F, 477.
 Trouessart, E. L. 1898 B, 8.
 Arl'dt, T. 1923 A, 488 (T. robustus).
 Bridge, T. W. 1904 A, 462.
 Dames, W. 1899 F, 555.
 Dean, B. 1909 C, 258.
 Eastman, C. R. 1907 B, 19.
 1908 A, 279.
 Jordan, D. S. 1905 A, i, 551.
 1907 B, 208.
 Pompeckj, J. F. 1913 A, 1129.
 Merrill, G. P. 1907 A, 20.
 Devonian (Middle or Upper); Kentucky.
- Tamiobatis vetustus Eastman.**
 Hay, O. P. 1902 A, 315.

Superfamily *SQUATINOIDÆ*, new form.

Gill, T. 1882 A, 967 (Squatinoidea).
1885 A, lxiv (Rhinae).
1905 A, i, 547 (Rhinae).

Gill, T. 1907 B, 204 (Rhinae).
Jordan, D. S. 1923 A, 102 (Squatinoidei).

SQUATINIDÆ Owen.

Owen, R. 1868 A, 909 (Earliest?).
Arlt, T. 1907 D, 283.
1923 A, 488 ("squatinden").
Bridge, T. W. 1904 A, 456 (Rhinae).
Dollo, L. 1889 F, 340.
Duméril, A. 1856 A, 136 (Squatinae).
1865 A, 462 (Rhinae).
Fitzinger, L. J. 1873 A, 56 (Squatinae).
Gill, T. 1872 C, 23.
1882 A, 967.
1885 A, lxiv.
Goodrich, E. S. 1909 A, 156.
Günther, A. 1870 A, 430 (Rhinae).
Hasse, C. 1877 A, 329 ("Fam. Squatina").
Hennig, E. 1921 B, 117.
Hoernes, R. 1886 A, 544.
Huber, O. 1901 A (Rhinae).
Jordan, D. S. 1905 A, i, 547; ii, 593.
1907 B, 204, 759.
1923 A, 102.

Jordan and Gilbert 1882 A, 35.
Kingsley, J. S. 1885 A, 84.
Lavocat, A. 1896 B, 196 ("squatines").
Leunis and Ludwig 1883 A, 788 (Rhinae).
Mayer, P. 1886 A, 278.
Müller and Henle 1837 A, 399 (Squatinae).
Owen, R. 1866 A, 13 (Squatinae).
Pompeckj, J. F. 1913 A, 1127, 1129.
Regan, C. T. 1906 A, 723, 746, 751.
Ridewood, W. G. 1921 A, 344, 376, 395.
Schlosser, M. 1917 A, 137, 139 ("squatinden").
Stannius, H. 1854 A, 3, seq. (Squatinae).
Steinmann, G. 1907 A, 402.
Terra, P. 1911 A, 200.
Van Wijhe, J. W. 1922 A, 291.
Weiler, W. 1922 A, 93.
Zittel and Koken 1911 A, 64.
Zittel and Schlosser 1923 A, 69.
Zittel and Woodward 1902 A, 39.

SQUATINA Duméril. Type *S. angelus* Duméril.

Duméril, A. M. C. 1806 A, 102, 342.
Abel, O. 1906 C, 82.
1912 F, 436, fig. 317 (Rhina).
1919 A, 27, 124, figs. 86, 87 (Rhina).
1920 A, 327 (Rhina).
Allis, E. P. 1913 A, 325.
1923 B, 134 (Rhina).
Arlt, T. 1923 A, 488.
Bassani, F. 1891 A, 44.
Bridge, T. W. 1904 A, 457 (Rhina).
Bronn, H. G. 1848 B, 1197.
1849 A, 641.
Cuvier, G. 1814 A, 77 (Squalus).
1815 A, 122 (Squalus squatina).
Daniel, J. F. 1922 A, fig. 16.
Davidoff, M. 1879 A.
Dollo, L. 1889 F, 336.
Drevermann, F. 1910 B, 191, pl.
Duméril, A. 1856 A, 124 ("ange").
1865 A, 463 (Rhina).
Eastman, C. R. 1904 H, 71.
Edgeworth, F. H. 1926 A, 189.
Fraas, O. 1854 A, 782, pls. xxvii-xxix.
Fuchs, H. 1907 C, 26.
Garman, S. 1913 A, 250 (Rhina).
Gaupp, E. 1905 D, 874.
Gegenbaur, C. 1867 B, 410.
1870 B, 451.
1870 C, 414.
Giebel, C. G. 1855 A, 114.
Goette, A. 1878 A, 12.
Gregory, W. K. 1904 A, 56, 58.
Günther, A. C. 1870 A, 430 (Rhina).
Hasse, C. 1877 A, 328.
1878 A, 169.
Haswell, W. A. 1884 A, 73.
Heilprin, A. 1887 A, 300.
Hennig, E. 1921 B, 117.

Huxley, T. H. 1863 F, 373, figs. 32, 33.
1876 E, 115.
Jaekel, O. 1899 A, 277 (Rhina).
Jordan, D. S. 1905 A, i, 548.
1907 B, 205.
1917 A, 75.
1923 A, 102.
Jordan and Beal 1913 A, 254.
Jordan and Evermann 1917 A, 75.
Jordan and Gilbert 1882 A, 35.
Jordan and Hannibal 1923 A, 58.
Kesteven, H. L. 1922 A, 315.
1926 A, 136, figs. 4-6.
Kingsley, J. S. 1912 B, 77, fig. 75.
1925 A, 30, 67, figs. 31, 72.
Kner, R. 1860 B, 816.
Köstlin, O. 1844 A.
Leigh-Sharpe, W. H. 1926 A, 341 (Rhina).
Leriche, M. 1906 C, 422.
1908 A, 230, pl. iii, figs. 1-5, text-fig. 1.
Leunis and Ludwig 1883 A, 788 (Rhina).
M'Donnell, R. 1864 A, 167 ("angel-fish").
Marck, W. 1885 A, 262, pl. xxv.
Mayer, P. 1886 A, 239, 278.
Meckel, J. F. 1825 A.
Miller, H. 1851 A, 92.
Mivart, St. G. 1871 B, 391, pl. liii, fig. 5.
1878 B, 332.
Müller and Henle 1837 A, 399.
1837 B, 399.
1838 A, 89.
Newton, E. T. 1891 A, 112, pl. ix, figs. 11-11c.
Norman, E. W. 1926 A, 449, fig. 55.
Owen, R. 1845 B, 43, 50, pl. x, fig. 2.
1848 B, 87.
1866 A, 78.
1868 A, 909.
Pompeckj, J. F. 1913 A, 1127, fig. 30.

- Priem, F. 1908 B, 76, 92.
 Probst, J. 1886 B, 304.
 Rabinerson, A. 1925 A, 442, fig. 3 (*Squatina*);
 516, fig. 1 (*Rhina*).
 Rabl, C. 1901 A, 523.
 Regan, C. T. 1906 A, 751, figs. 115, 121.
 Reis, O. M. 1893 A, 504.
 Ridewood, W. G. 1895 B, 431.
 1921 A, 315, 326, 376, fig. 25.
 Schauinsland, H. 1906 A, 407.
 Schmalhausen, J. J. 1913 A, 10.
 Sečurov, S. 1911 A, 10, pl. i.
 Stannius, H. 1854 A, 81, 82, 88, 98.
 Steinhard, O. 1903 A, 20.
 Storms, R. 1891 A, 147.
 1894 A, 75, pl. vi.
 Ússow, S. 1900 A, 233.
 Van Wijhe, J. W. 1922 A, 291.
 Versluys, J. 1922 B, 98.
 Weiler, W. 1922 A, 93, pls. i-iii.
 1889 I, 2, figs. 3-5.
 Woodward, A. S. 1888 L, 144, pl. vii, figs. 1-6.

- Woodward, A. S. 1898 F, 289, pl. x; text-fig. 1.
 1912 A (1911), 223.
 Zittel and Koken 1911 A, 64.
 Zittel and Schlosser 1923 A, 69, fig. 116.
 Zittel and Woodward 1902 A, 39.

Squatina lerichei Jordan and Beal.

- Jordan and Beal* 1913 A, 253, fig. B.
Jordan and Hannibal 1923 A, 59, pl. iii, figs.
b, c, i, j.
 Miocene (Monterey); California.

Squatina occidentalis Eastman.

- Eastman, C. R.* 1904 H, 71, pl. xxviii, fig. 1.
Shattuck, G. B. 1904 A, xcvi.
 Miocene (Calvert); Maryland.

Squatina sp. indet.

- Hussakof, L. 1908 A, 36. Eocene; South Carolina.

Superfamily *RAJOIDÆ*, new form.

- Hay, O. P. 1902 A, 315 (*Pachyura*).
 Bridge, T. W. 1904 A, 457 (*Batoidei*).
 Fowler, H. W. 1911 A, 80 (*Sarcura*).
 Garman, S. 1913 A, 257 (*Rhinobatoidea*); 258,
 259 (*Raioidei*).
 Gill, T. 1873 F, 12 (*Raiaodæ*).
 Goodrich, E. S. 1909 A, 159 (*Rhinoraji*).
 Jordan, D. S. 1905 A, i, 519, 549 (*Batoidei*).

- Jordan, D. S. 1907 B, 206 (*Bathoidei*).
 1923 A, 102 (*Sarcura*).
 Pompeckj, J. F. 1913 A, 1129 (*Rhinoraji*).
 Rauther, M. 1913 A, 1098 (*Rhinoraji*).
 Regan, C. T. 1906 A, 724, 753 (*Batoidei*).
 Zittel and Koken 1911 A, 65 (*Rhinorajidæ*).
 Zittel and Schlosser 1923 A, 71 (*Rhinorajidæ*).

RAJIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 99.
 Hay, O. P. 1902 A, 315.
 Abel, O. 1908 E, 409 ("rochen").
 Anthony, R. 1912 A ("raies").
 Arltdt, T. 1907 D, 283.
 1923 A, 489.
 Backman, G. 1913 A, 8 ("rajiden").
 1915 A (*Raiidæ*).
 Bonaparte, C. L. 1839 A, 3, 6.
 Braus, H. 1904 A, 405 ("rajiden").
 Bridge, T. W. 1904 A, 461 (*Raiidæ*).
 Bronn, H. G. 1849 A, 830, seq.
 Carus, V. 1875 A, 604.
 Cope, E. D. 1891 N, 17.
 Cunningham, J. T. 1912 A, 246 (*Raiidæ*).
 Cuvier, G. 1801 A, 26 ("raies").
 1815 A, 123 ("raies").
 Day, E. C. H. 1865 A, 565 (*Raiidæ*).
 Dollo, L. 1889 F, 340.
 1904 C, 50.
 1910 A, 396 ("raies").
 1922 A, 218 ("raies").
 Fitzinger, L. J. 1873 A, 57 (*Rajæ*).
 Fürbringer, K. 1903 A, 369 ("rajiden").
 Garman, S. 1913 A, 316.
 Gaupp, E. 1905 D, 842 (*Rajæ*).
 Gill, T. 1908 B, 160 (*Raiidæ*).
 Goodrich, E. S. 1909 A, 160.
 Hay, O. P. 1901 A, 545.
 Hoernes, R. 1886 A, 545.
 Huber, O. 1901 A, 636.

- Imms, A. D. 1905 A, 46.
 Jaekel, O. 1909 D, 717.
 Jordan, D. S. 1905 A, i, 551; ii, 588.
 1907 B, 208, 759.
 1923 A, 103.
 Jordan and Gilbert 1882 A, 39 (*Raiidæ*).
 Kerr, J. S. 1900 A, 229 ("rays").
 Kingsley, J. S. 1885 A, 87.
 Klaatsch, H. 1893 C, 181.
 Leigh-Sharpe, W. H. 1926 A, 341 (*Raiidæ*).
 Leriche, M. 1906 C, 273.
 Leunis and Ludwig 1883 A, 790.
 Lubosch, W. 1909 A, 4 ("rochen").
 Mayer, P. 1886 A, 273.
 Müller, E. 1909 A, 512 ("rochen").
 Owen, R. 1845 B, 43 (*Raiidæ*).
 Pompeckj, J. F. 1913 A, 1130.
 Rabinerson, A. 1925 A, 442, 445, 518 ("rochen").
 Radcliffe, L. 1916 A, 271.
 Rauther, M. 1913 A, 1099.
 Regan, C. T. 1906 A, 724, 755 (*Raiidæ*).
 Ridewood, W. G. 1921 A, 386 (*Raiidæ*).
 Roth, W. 1911 A, 546, 547.
 Sabatier, A. 1903 B, 1218 ("rajides").
 1904 A, 252 ("raies").
 Schauinsland, H. 1906 A, 407.
 Terra, P. 1911 A, 203.
 Wallace, A. R. 1876 A, ii, 462 (*Raiidæ*).
 Zittel and Koken 1911 A, 66 (*Rajinæ*).
 Zittel and Schlosser 1923 A, 72 (*Rajinæ*).
 Zittel and Woodward 1902 A, 41.

RAJA Linn. Type *R. batis* Linn.

- Hay, O. P. 1902 A, 315.
 Abel, O. 1906 C, 82.
 1908 E, 409.
 Agassiz, L. 1874 A, 131.
 Allis, E. P. 1915 A, 577 (Raia).
 Arldt, T. 1923 A, 489.
 Backman, G. 1913 A.
 Beer, G. R. 1926 A, 273, fig. 7.
 Braus, H. 1901 B, 176, text-fig. 8.
 Bridge, T. W. 1904 A, 461, 753 (Raia).
 Briquel, P. 1898 A, 16.
 Bronn, H. G. 1848 B, 1076.
 1849 A, 639.
 Carter, O. 1875 A, 67, pl. iv, fig. 4.
 Coulon, L. 1903 A, 132 (Raia).
 Daniel, J. F. 1922 A, figs. 18, 66, 71.
 Dohrn, A. 1884 A, 139.
 Dollo, L. 1910 A, 394.
 Duméril, A. 1856 A, 137 ("raie").
 Eastman, C. R. 1904 H, 71.
 Fahrenholz, C. 1915 A, 407.
 Fuchs, T. 1900 A, 6, pl., figs. 1, 2.
 1907 C, 26.
 Garman, S. 1913 A, 317 (Raia).
 Gaupp, E. 1898 B, 860.
 1905 D, 897.
 Gegenbaur, C. 1870 B, 449, pl. xv, fig. 11.
 1870 C, 406.
 Giebel, C. G. 1855 A, 117.
 Goette, A. 1878 A, 12.
 Goodrich, E. S. 1906 A, 345.
 1909 A, 515, figs.
 Gregory, W. K. 1904 A, 62 (Raia).
 Haller, G. 1923 A, 96, fig. 1.
 Hamburger, R. 1904 A, 73.
 Hay, O. P. 1901 B, 68.
 Hoeven, J. 1822 A.
 Hoffmann, L. 1912 A, 241, pls. xvii, xxi.
 Huxley, T. H. 1853 A ("skate").
 1876 E, 115. (Raia).
 Imms, A. D. 1905 A, 46.
 Jacobshagen, E. 1920 A, 92.
 1923 A, 175.
 Jaekel, O. 1901 A, 552.
 1909 D, 718, fig. 9.
 Jordan, D. S. 1905 A, i, 552; ii, 588.
 1907 B, 209.
 1917 A, 11.
 1923 A, 103.
 Jordan and Evermann 1917 A, 11.
 Jordan and Gilbert 1882 A, 39 (Raia).
 Kehrer, F. A. 1896 A, 349.
 Kingsley, J. S. 1925 A, 235 (Raia).
 Köstlin, O. 1844 A.
 Kner, R. 1860 B, 817.
 Leigh-Sharpe, W. H. 1921 A, 359.
 1924 A, 567, figs. 1-15 (Raia).
 1926 A, 352, figs. 5-8 (Raia).
 Leriche, M. 1906 C, 420.
 Leydig, F. 1852 A.
 Lubosch, W. 1909 A, 3, fig. 4.
 Lütken, C. L. 1874 A, 318.
 Mayer, P. 1886 A, 231.
 Meckel, J. F. 1825 A.
 Meek, A. 1916 A, 42, 411 (Raia).
 Meyer, G. H. 1847 A, 87.
 Müller, E. 1909 A, 512.
 Norman, E. W. 1926 A, 449, fig. 55.
 Osburn, R. C. 1907 B, 179.
 Owen, R. 1845 B, 44 (Raia).
 1848 B, 196 (Raia).
 1868 A, 904 (Raia).
 Pouchet, G. 1878 A, 148, pl. iv.
 Priem, F. 1908 B, 76, figs. 31-33.
 Rabinerson, A. 1925 A, 435, 445, figs. 1, 4; 517,
 fig. 2.
 Radcliffe, L. 1916 A, 271, pl. xlv.
 Ridewood, W. G. 1896 A, 382, 386, figs. 7, 8
 (Raia).
 1921 A, 387, figs. 32-34 (Raia).
 Rennie, J. 1906 A, 428 (Raia).
 Reynolds, S. H. 1897 A, 32, 114 (Raia).
 Roth, W. 1911 A, 546, pl. vi (Raia).
 Ryder, J. 1887 A, 357 (Raia).
 Sabatier, A. 1903 B, 1218 ("raie").
 Sečerov, S. 1911 A, 8.
 Sonies, F. 1907 A, 445.
 Stannius, H. 1854 A.
 Steinhard, O. 1903 A, 37.
 Stephan, P. 1900 A, 311, 345, fig. 2.
 Struck, W. 1915 A, 139, fig. 6.
 Tomes, C. S. 1898 B, 444 (Raia).
 Ussow, S. 1900 A, 233.
 Williamson, C. W. 1851 A, 672, pl. xxx, fig. 28-
 32 (Raia).
Raja? dux Cope.
 Hay, O. P. 1902 A, 316.
 Eastman, C. R. 1904 H, 72, pl. xxviii, fig. 2
 (This genus?).
 Shattuck, G. B. 1904 A, cxvi (This genus?).
 Upper Miocene (Calvert); Maryland.

GRYPHODOBATIS Leidy. Type *G. uncus* Leidy.

- Hay, O. P. 1902 A, 316.
 Jordan, D. S. 1923 A, 104.
Gryphodobatis uncus Leidy.
 Hay, O. P. 1902 A, 316.
 Phosphate beds; South Carolina.

ONCOBATIS Leidy. Type *O. pentagonus* Leidy.

- Hay, O. P. 1902 A, 316.
 Hay, O. P. 1901 B, 68.
 Jordan, D. S. 1923 A, 103.
 Zittel and Woodward 1902 A, 42.
Oncobatis pentagonus Leidy.
 Hay, O. P. 1902 A, 316.
 Hay, O. P. 1927 D, 265, 268.
 Pliocene or Pleistocene (Idaho); Idaho.

PRISTIDÆ Owen.

- Owen, R. 1846 E, 51.
 Hay, O. P. 1902 A, 316.
 Abel, O. 1919 A, 124.
 Aichel, O. 1919 A, 145.
 Arldt, T. 1907 D, 283.
 1923 A, 489.
 Boulenger, G. A. 1917 B, 329.
 Braus, H. 1906 A, 182 ("pristiden").
 Bridge, T. W. 1904 A, 459.
 Cope, E. D. 1869 L, 312.
 1891 N, 17.
 Cunningham, J. T. 1912 A, 246.
 Dollo, L. 1889 F, 340.
 1904 C, 48.
 1922 A, 218.
 Engel, H. 1909 A, 51 ("pristiden").
 Fitzinger, L. J. 1873 A, 57 (Pristes).
 Fowler, H. W. 1911 A, 80.
 Garman, S. 1913 A, 258, 260.
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1909 A, 160.
 Günther, A. C. 1870 A, 436.
 Hay, O. P. 1901 B, 68.
 Hoffmann, L. 1912 A, 239 ("pristiden").
 Huber, O. 1901 A, 627.
 Jacobshagen, E. 1923 A, 175 ("pristiden").
 Jordan, D. S. 1905 A, i, 549 (Pristididæ).
 1907 B, 206, 759 (Pristididæ).
 Jordan and Gilbert 1882 A, 36.
 Radcliffe, L. 1916 A, 268.
 Rauther, M. 1913 A, 1098.
 Regan, C. T. 1906 A, 724 (Rhinobatidæ).
 Pompeckj, J. F. 1913 A, 1127, 1129.
 Ridewood, W. G. 1921 A, 380 (Pristinæ).
 Roth, W. 1911 A, 544-545.
 Schlosser, M. 1917 A, 139, 141 ("pristiden").
 Stromer, E. 1905 B, 46, 55.
 1912 A, 20.
 1917 A, 23.
 1917 B, 1*.
 1925 A, 12, 18, 21.
 Wallace, A. R. 1876 A, ii, 462.
 Woodward, A. S. 1892 I, 533.
 Zittel and Koken 1911 A, 64.
 Zittel and Schlosser 1923 A, 70.
 Zittel and Woodward 1902 A, 40.

PRISTIS Linck. Type *Squalus pristis* Linn.

- Linck, H. F. 1790, Mag. neuest. Phys. Naturg., 31.
 Hay, O. P. 1902 A, 316.
 Abel, O. 1912 F, 514.
 1919 A, 124, fig. 84.
 1921 A, 156.
 Agassiz, L. 1844 D, 142.
 Aichel, O. 1919 A, 145.
 Allis, E. P. 1913 A, 327.
 Arldt, T. 1923 A, 489.
 Backman, G. 1913 A, 45.
 Bridge, T. W. 1904 A, 459, 752.
 Bronn, H. G. 1849 A, 640.
 Coulon, L. 1903 A, 130.
 Daniel, J. F. 1922 A, 32, figs. 17, 36, 38, 41.
 Dollo, L. 1889 F, 336.
 1904 C, 48.
 1910 A, 394.
 1922 A, 218.
 Duméril, A. 1856 A, 139 ("scie").
 Engel, H. 1909 A, 53.
 Fowler, H. W. 1911 A, 81.
 Fraas, E. 1907 A, 1.
 Fürbringer, M. 1902 A, 172.
 Garman, S. 1913 A, 260.
 Gaupp, E. 1898 B, 860.
 Gegenbaur, C. 1870 B, 458, pl. xvi, fig. 28.
 Gervais, P. 1852 A, explan. pl. lxxviii.
 1859 A, 519, pl. lxxviii.
 Giebel, C. G. 1855 A, 117.
 Green, J. 1857 A, 67.
 Hay, O. P. 1901 B, 68.
 Heilprin, A. 1887 A, 300.
 Hoffman, L. 1912 A, 240, 334, pls. xiii-xvi, xviii, xix.
 Huber, O. 1901 A, 627.
 Jacobshagen, E. 1923 A, 176.
 Jackel, O. 1902 E, 1078.
 1925 C, 182.
 Jordan, D. S. 1905 A, 199, 548.
 1907 B, 207.
 1917 A, 41, 49, 52.
 Jordan, D. S. 1923 A, 102.
 Jordan and Evermann 1917 A, 41, 49, 52.
 Jordan and Gilbert 1882 A, 37.
 Kemna, A. 1902 A, 233.
 Klaatsch, H. 1890 A, 120, 123.
 Köllicker, A. 1860 C, 144.
 Köstlin, O. 1844 A.
 Leriche, M. 1905 A, 97.
 1906 C, 420.
 1907 B, 337.
 Mayer, P. 1886 A, 250.
 Mivart, St. G. 1878 B, 311, 332.
 Müller and Henle 1838 A, 89.
 Owen, R. 1868 A, 902.
 Pappenheim, P. 1905 A, 98.
 1905 B, 397, figs. 1, 2, 6.
 Priem, F. 1908 B, 92, 105, fig. 52.
 Probst, J. 1886 B, 304.
 Rabl, C. 1901 A, 527.
 Radcliffe, L. 1916 A, 268, figs. 21, 22.
 Reynolds, S. H. 1897 A, 109, 119.
 Ridewood, W. G. 1896 A, 381, 384.
 1921 A, 385, fig. 31.
 Roth, W. 1911 A, 544, pls. vi, viii.
 Schoenichen, W. 1900 A, 504.
 Spengel, J. W. 1892 A, 147.
 Stannius, H. 1854 A.
 Steinhard, O. 1903 A, 35.
 Stephan, P. 1900 A, 409.
 Stromer, E. 1905 B, 46.
 1917 A, 8.
 1925 A, 18, 20.
 Vigliarolo, G. 1891 A, 3.
 Wagner, R. 1843 A ("sägefische").
 Williamson, W. C. 1851 A, 677 ("sawfish").
 Woodward, A. S. 1889 I, 3.
 1892 I, 533.
 1918 A, 194.
 1921 B, 38.
 Zittel and Schlosser 1923 A, 70.
 Zittel and Woodward 1902 A, 40.

Pristis agassizi Gibbes.

- Hay, O. P. 1902 A, 316.
 Vigliarolo, G. 1891 A, 10, 26.
 Eocene; South Carolina.

Pristis amblodon Cope.

- Hay, O. P. 1902 A, 316.
 Fowler, H. W. 1911 A, 81; fig. 39.
 Hussakof, L. 1908 A, 34, fig. 11.
 Vigliarolo, G. 1891 A, 12, 26.
 Eocene; New Jersey.

Pristis attenuatus Cope.

- Hay, O. P. 1902 A, 316.
 Hussakof, L. 1908 A, 34, fig. 12.
 Vigliarolo, G. 1891 A, 13, 26.
 Tertiary; North Carolina.

Pristis brachyodon Cope.

- Cope, E. D. 1869 L, 312.
 Hay, O. P. 1902 A, 316.

- Vigliarolo, G. 1891 A, 12, 26.
 Eocene (Greensand); Virginia.

Pristis curvidens Leidy.

- Hay, O. P. 1902 A, 316.
 Fowler, H. W. 1911 A, 82; fig. 40.
 Vigliarolo, G. 1891 A, 11, 26.
 Upper Cretaceous (Manasquan?); New Jersey.

Pristis ensidens Leidy.

- Hay, O. P. 1902 A, 316.
 Vigliarolo, G. 1891 A, 12, 27
 Miocene? (Phosphate beds); South Carolina.

Pristis sp. indet.

- Enmons, E. 1858 B, 243, fig. 93.
 Eocene; North Carolina.
 Tuomey, M. 1848 A, 160.
 Eocene; South Carolina.

Superfamily DASYATOIDÆ, new form.

- Hay, O. P. 1902 A, 317 (Masticura).
 Fowler, H. W. 1911 A, 84.
 Garman, S. 1913 A, 259 (Dasybatoidei, Myloidea, Mobuloidea).
 Goodrich, E. S. 1909 A, 163 (Centrobatoidi).
 Gregory, W. K. 1907 D, 446 (Masticura).
 Jaekel, O. 1911 A, 58 (Centrobatii).

- Jordan, D. S. 1905 A, i, 549 (Batoidei).
 1907 B, 212 (Batoidei).
 1923 A, 104 (Masticura).
 Pompeckj, J. F. 1913 A, 1130 (Centrobatii).
 Ziegler, H. E. 1908 B, 656, pl. xxiii, fig. 1 (Torpedo).
 Zittel and Koken 1911 A, 66 (Masticura).
 Zittel and Schlosser 1923 A, 72 (Masticura).

PTYCHODONTIDÆ.

- Hay, O. P. 1902 A, 317.
 Abel, O. 1919 A, 139.
 Goodrich, E. S. 1909 A, 165.
 Hay, O. P. 1901 B, 68.
 Hussakof, L. 1908 A, 41.
 Jordan, D. S. 1923 A, 105.

- Pompeckj, J. F. 1913 A, 1131.
 Schlosser, M. 1917 A, 139, 141 ("ptychodontiden").
 Zittel and Koken 1911 A, 68 (Ptychodontinæ).
 Zittel and Schlosser 1923 A, 74 (Ptychodontinæ).

PTYCHODUS Agassiz. Type *P. mammillaris* Agassiz.

- Hay, O. P. 1902 A, 317.
 Abel, O. 1919 A, 139, fig. 103.
 Arltdt, T. 1907 D, 339.
 Bronn, H. G. 1848 B, 1058.
 1849 A, 648, 649.
 Canavari, M. 1916 A, 35, pls. v-xiv.
 Canestrelli, G. 1910 A, 102.
 Coulon, L. 1903 A, 118.
 Darton, N. H. 1908 A, 457.
 Deecke, W. 1913 A, 86.
 Dibley, G. E. 1911 A, 263.
 Fossa-Mancini, E. 1921 A, 195.
 Gaudry, A. 1896 A, 172, fig. 157.
 Giebel, C. G. 1855 A, 115, pl. xlviii.
 Goodrich, E. S. 1909 A, 165, fig. 128.
 Gosselet, J. A. A. 1875 A, 12, 121.
 Hay, O. P. 1901 B, 68.
 Heilprin, A. 1887 A, 300.
 Humphreys, J. 1908 A, 11.
 Jordan, D. S. 1905 A, i, 557.
 1907 B, 214.
 1919 B, 194.
 1923 A, 105.
 Leriche, M. 1902 B, 89.
 1906 C, 73.

- Mantell, G. A. 1844 A, 607, 616, fig. 127.
 Oswald, F. 1851 A, 531.
 Pompeckj, J. F. 1913 A, 1131.
 Priem, F. 1896 B, 10.
 1908 B, 46, 49.
 Raffelt, R. 1877 A, 279.
 Regan, C. T. 1906 A, 756.
 Sauvage, E. 1867 A, 107.
 Schlosser, M. 1917 A, 142.
 Steinmann, G. 1907 A, 404.
 Stephan, P. 1900 A, 409.
 Storms, R. 1891 A, 115, 147.
 Woodward, A. S. 1890 H, 38.
 1898 B, 52.
 1904 A, 133.
 1904 B, 139.
 1904 C, 190.
 1912 A, 225, text-fig. 69.
 1921 A, 180.
 1921 B, 37.
 1921 C, 180.
 1922 C, 75.
 Zittel and Koken 1911 A, 68.
 Zittel and Schlosser 1923 A, 74, figs. 127, 128.
 Zittel and Woodward 1902 A, 43.

Ptychodus anonymus Williston.

Hay, O. P. 1902 A, 317.
Cretaceous (Niobrara, Benton?); Kansas.

Ptychodus decurrens Agassiz.

Hay, O. P. 1902 A, 317.
Canestrelli, G. 1910 A, 102, 117.
Coulon, L. 1903 A, 119.
Dibley, G. E. 1911 A, 264, pl. xvii, fig. 2, pl. xix, figs. 20-24.
Fossa-Mancini, E. 1921 A, 195.
Gaudry, A. 1896 A, 172, fig. 157.
Gervais, P. 1852 A, explan. pl. lxxviii.
1859 A, 526, pl. lxxviii.
Leriche, M. 1902 B, 90, 94, pl. ii, figs. 19, 20.
1906 B, 348.
1906 C, 414.
Mantell, G. A. 1844 A, 617.
Oswald, F. 1851 A, 535.
Pompeckj, J. F. 1913 A, 1132, fig. 36.
Priem, F. 1896 B, 11.
1912 B, 265.
1913 A, 159.
Stefano, G. 1912 B, 60, pl. ii.
Woodward, A. S. 1904 A, 133, pl. xv, text-fig. 1.
1904 B, 140.
1912 A, 239, pls. li, lii; text-figs. 70, 71, 76, 77.
1922 C, 75, fig. 76.
Zittel and Koken 1911 A, 68, fig. 122.
Zittel and Woodward 1902 A, 43, fig. 86.
Cretaceous; Europe: Cretaceous; Arizona.

Ptychodus janevairi Cope.

Hay, O. P. 1902 A, 317.
Cretaceous (Niobrara); Kansas.

Ptychodus mammillaris Agassiz.

Hay, O. P. 1902 A, 318.
Canestrelli, G. 1910 A, 103.
Coulon, L. 1903 A, 118.
Dibley, G. E. 1911 A, 271, pl. xxii, figs. 3-5.
Leriche, M. 1902 B, 93, pl. ii, figs. 8-12.
1906 B, 348.
1906 C, 418.
Oswald, F. 1851 A, 535.
Priem, F. 1896 B, 11.
1908 B, pl. i, figs. 4-7.
Stefano, G. 1912 B, 61, pl. ii.
Woodward, A. S. 1890 H, 39, pl. i, figs. 3-14.
1912 A, 230, pl. xlvii, figs. 13-27, text-fig. 72.
Cretaceous; Europe: Cretaceous; Delaware.

Ptychodus martini Williston.

Hay, O. P. 1902 A, 318.
Mantell, G. A. 1844 A, 615, fig. 128.
Upper Cretaceous (Niobrara); Kansas.

Ptychodus occidentalis Leidy.

Hay, O. P. 1902 A, 318.
Upper Cretaceous (Niobrara); Kansas.

Ptychodus papillosus Cope.

Hay, O. P. 1902 A, 318.
Upper Cretaceous; Colorado.

Ptychodus parvulus Whiteaves.

Hay, O. P. 1902 A, 318.
Lambe, L. M. 1904 C, 21, 36, 41.
Upper Cretaceous (Colorado); Manitoba.

Ptychodus polygyrus Agassiz.

Hay, O. P. 1902 A, 318.
Canavari, M. 1916 A.
Canestrelli, G. 1910 A, 103, 114.
Coulon, L. 1903 A, 119.
Dibley, G. E. 1911 A, 268, pl. xx, figs. 1, 2; pl. xxi, figs. 1, 2.
Fossa-Mancini, E. 1921 A, 195.
Leriche, M. 1902 B, 97, pl. ii, figs. 21-23.
1906 B, 348.
1906 C, 420, pl. vi.
Mantell, G. A. 1844 A, 616, pl. vi, text-fig. 130 (P. polygyrus).
Oswald, F. 1851 A, 535.
Priem, F. 1896 B, 11.
Stefano, G. 1912 B, 59, pl. ii.
Woodward, A. S. 1912 A, 232, pl. xlviii, figs. 12-16; pl. xlix.
1890 H, 40, pl. i, figs. 15-20.
Worthen, A. H. 1890 A, 4, fig. 6.
Zittel and Woodward 1902 A, 43, fig. 85.
Upper Cretaceous; Europe: Upper Cretaceous, Alabama, Kansas, Illinois (in glacial drift).

Ptychodus whipplei Marcou.

Hay, O. P. 1902 A, 318.
Cockerell, T. D. A. 1908 C, 162.
Freudenberg, W. 1921 A, 111 (P. whipplei).
Upper Cretaceous (Niobrara); Kansas, Colorado, New Mexico, Mexico.

Ptychodus sp. indet.

Hay, O. P. 1902 A, 318.
Cannon, G. L. 1890 B, 313.
Upper Cretaceous (Niobrara); Colorado.
Gilmore, C. W. 1921 E, 590.
Lower Cretaceous (Arundel); Maryland (This genus?).
Lee, W. T. 1917 A, 197.
Upper Cretaceous (Mancos); New Mexico.
McConnell, R. G. 1893 A, 48 D.
Cretaceous (Peace River); Athabasca.
Reeside, J. B. 1924 A, 11, pl. iii.
Upper Cretaceous (Mancos); Colorado.
Tuomey, M. 1848 A, 165, 166, 208 ("Ptychodus").
Tertiary; South Carolina.

PLATYCHODUS Yates. Type *Ptychodus mortoni* Mantell.

Yates, L. G. 1886 A, 20.
Hay, O. P. 1902 A, 317 (Hemiptychodus).
Fossa-Mancini, E. 1921 A, 195 (Hemiptychodus).

Jordan, D. S. 1923 A, 105 (Hemiptychodus).
Pompeckj, J. F. 1913 A, 1131 (Hemiptychodus).
Woodward, A. S. 1889 D, 149.

Platychodus mortoni (Mantell).

- Hay, O. P. 1902 A, 317 (Hemiptychodus).
 Dibley, G. E. 1911 A, 272, pl. xxii, figs. 7, 8 (Ptychodus).
 Freudenberg, W. 1921 A, 111 (Ptychodus).
 Hay, O. P. 1901 B, 68 (Hemiptychodus).
 Hussakof and Bryant 1919 A, 155 (Hemiptychodus).
 Leriche, M. 1902 B, 90 (Ptychodus).

- Merrill, G. P. 1907 A, 17 (Ptychodus).
 Smith, E. A. 1894 A, 280 (Ptychodus).
 Spillman, W. 1863 A (Ptychodus).
 Tuomey, M. 1850 B, 120 (Ptychodus).
 Woodward, A. S. 1912 A, 244, pl. liv, fig. 1 (Ptychodus).
 Yates, L. G. 1886 A, 20.
 Upper Cretaceous; Alabama, Mississippi, Kansas, Mexico.

DASYATIDÆ.

Unless otherwise indicated the writers, as cited, employ for this family the name Trygonidæ.

- Hay, O. P. 1902 A, 318 (Dasyatidæ).
 Abel, O. 1912 F, 565.
 1919 A, 126.
 Arltdt, T. 1907 D, 687.
 1923 A, 489 ("trigoniden").
 Bridge, T. W. 1904 A, 464.
 Carus, V. 1875 A, 604.
 Cope, E. D. 1891 N, 17.
 Cunningham, J. T. 1912 A, 246.
 Dollo, L. 1889 F, 341.
 1904 C, 48.
 Fitzinger, L. J. 1873 A, 57 (Trygones).
 Fürbringer, K. 1903 A, 369 ("trygoniden").
 Garman, S. 1913 A, 259, 373 (Dasybatidæ).
 Gill, T. 1905 A, 658 (Dasybatidæ).
 1908 B, 160 (Dasybatidæ).
 Goodrich, E. S. 1909 A, 164.
 Gregory, W. K. 1907 D, 446 (Dasyatidæ).
 Hay, O. P. 1901 B, 68 (Dasyatidæ).
 Hoernes, R. 1886 A, 545.
 Huber, O. 1901 A, 629.
 Imms, A. D. 1905 A, 46.

- Jordan, D. S. 1905 A, i, 555 (Dasyatidæ).
 1907 B, 212, 759 (Dasyatidæ).
 1923 A, 104 (Dasyatidæ).
 Jordan and Gilbert 1882 A, 45.
 Jordan and Hannibal 1923 A, 59 (Urolophidæ).
 Kingsley, J. S. 1885 A, 88.
 Leigh-Sharpe, W. H. 1926 A, 341.
 Leriche, M. 1906 C, 273.
 1907 B, 339.
 Leunis and Ludwig 1883 A, 791.
 Lönnberg, E. 1910 A, 11.
 Pompeckj, J. F. 1913 A, 1131.
 Porta, A. 1905 A, 234.
 Radcliffe, L. 1916 A, 273 (Dasybatidæ).
 Rauther, M. 1913 A, 1099.
 Regan, C. T. 1906 A, 724, 756 (Dasybatidæ).
 Roth, W. 1911 A, 547.
 Schlosser, M. 1917 A, 145 (Trigoninæ).
 Stannius, H. 1854 A (Trygones).
 Terra, P. 1911 A, 203.
 Wallace, A. R. 1876 A, ii, 463.
 Woodward, A. S. 1904 B, 140.
 Zittel and Koken 1911 A, 66.
 Zittel and Schlosser 1923 A, 72 (Trygoninæ).
 Zittel and Woodward 1902 A, 42.

DASYATIS Rafinesque. Type *D. ujo* = *Raja pastinica* Linn.

Unless otherwise indicated the writers, as cited, use for this genus the name *Trygon*.

- Hay, O. P. 1902 A, 319 (Dasyatis).
 Abel, O. 1919 A, 131, fig. 93.
 Agassiz, L. 1874 A, 134.
 Allis, E. P. 1923 B, 124.
 Arltdt, T. 1923 A, 489 (Dasyatis, Trygon).
 Baudelot, E. 1873 A, 95.
 Bridge, T. W. 1904 A, 464.
 Cockerell, T. D. A. 1906 A, 160 (Dasyatis).
 Dollo, L. 1910 A, 394.
 Duméril, A. 1856 A, 137 ("pastenague").
 Evans, H. M. 1916 A, 431, figs. 1-7.
 1923 A, 4, 28, pl. i, text-figs. 1-3.
 Fahrenholz, C. 1915 A, 407.
 Fürbringer, K. 1903 A, 368.
 Fürbringer, M. 1903 A, 625.
 Garman, S. 1913 A, 7, 373, 375 (Dasyatus).
 Gaupp, E. 1898 B, 860.
 1905 D, 870.
 Gegenbaur, C. 1870 C, 422.
 Goodrich, E. S. 1906 A, 350.
 Hamburger, R. 1904 A, 73 (Dasyatis).
 Haseman, J. D. 1912 A, 98 (Dasyatis).
 Hay, O. P. 1901 B, 68 (Dasyatus).
 Heilprin, A. 1887 A, 294, 300.
 Huber, O. 1901 A, 629, pl. xxvii.
 Jordan, D. S. 1905 A, i, 556; ii, 566 (Dasyatis).
 1907 B, 213 (Dasyatis).

- Jordan, D. S. 1917 A, 78.
 1923 A, 104 (Dasyatis).
 Jordan and Evermann 1917 A, 78 (Dasyatis).
 Jordan and Gilbert 1882 A, 47, 65, 879.
 Klaatsch, H. 1901 A, 435.
 Leigh-Sharpe, W. H. 1926 A, 341.
 Leriche, M. 1905 A, 100.
 1906 C, 423.
 Leunis and Ludwig 1883 A, 791.
 Leydig, F. 1852 A (Dasyatis).
 Müller and Henle 1838 A, 90.
 Norman, E. W. 1926 A, 452.
 Owen, R. 1845 B, 44.
 Pompeckj, J. F. 1913 A, 1131.
 Porta, A. 1905 A, 234.
 Rabinerson, A. 1925 A, 448, 453, fig. 4; 518, fig. 1.
 Radcliffe, L. 1916 A, 273, pl. xlvi (Dasybatus).
 Reynolds, S. H. 1897 A, 106, 114.
 Roth, W. 1911 A, 547, pls. vi, viii.
 Schlosser, M. 1917 A, 144 (Xiphotrygon).
 Sewertzoff, A. N. 1923 A, 391.
 Stannius, H. 1854 A.
 Steinhard, O. 1903 A, 39.
 Solger, B. 1880 B, 476, pl. xxxix.
 Zittel and Koken 1911 A, 66.
 Zittel and Schlosser 1923 A, 72 (Xiphotrygon).
 Zittel and Woodward 1902 A, 42.

Dasyatis carolinensis (Emmons).

Hay, O. P. 1902 A, 319.

Miocene; North Carolina, Virginia.

Dasyatis hastata? (De Kay).

Hay, O. P. 1902 A, 319.

Hay, O. P. 1923 A, 363.

Hussakof, L. 1908 A, 30 (This species?).

Leidy, J. 1860 B, 119, pl. xxvii, figs. 1, 2 (Pastinica).

Radcliffe, L. 1916 A, 273 (Dasybatus).

Pleistocene; South Carolina.

Dasyatis sp. indet.

Hay, O. P. 1902 A, 319.

Clark and Miller 1912 A, 167, 168 (Dasyatus).

Hay, O. P. 1923 A, 370.

Miocene (Calvert); Virginia: Pleistocene; Georgia.

HELIOBATIS Marsh. Type *H. radians* Marsh.

Marsh, O. C. 1877 D, 261.

Hay, O. P. 1902 A, 319 (Dasyatis in part).

Cope, E. D. 1879 O (Xiphotrygon).

1884 O, 49 (Xiphotrygon).

Jordan, D. S. 1923 A, 104 (Heliobatis, Xiphotrygon).

Regan, C. T. 1906 A, 756 (Xiphotrygon).

Seeley, H. G. 1886 A, 412 (Xiphotrygon).

Woodward, A. S. 1889 D, 153 (Xiphotrygon).

Zittel, K. A. 1890 A, 105 (Xiphotrygon).

Zittel and Woodward 1902 A, 42 (Xiphotrygon).

Heliobatis radians Marsh.

Marsh, O. C. 1877 D, 256.

Hay, O. P. 1902 A, 319 (Dasyatis).

Cockerell, T. D. A. 1908 C, 162 (Dasyatis).

Jordan, D. S. 1905 A, i, 557 (Xiphotrygon acutidens).

1907 B, 214 (X. acutidens).

Lower Eocene (Green River); Wyoming.

UROBATIS Garman. Type *Leiobatis sloani* Blainv.

Garman, S. 1913 A, 373, 401.

Abel, O. 1906 C, 82 (Urolophus).

Arlt, T. 1923 A, 489 (Urolophus).

Duméril, A. 1856 A, 144 (Urolophus).

Haswell, W. A. 1884 A, 103 (Urolophus).

Jordan, D. S. 1923 A, 104.

Jordan and Evermann 1896 A, 79 (Urolophus).

Jordan and Gilbert 1882 A, 46 (Urolophus).

Leriche, M. 1906 C, 423 (Urolophus).

Müller and Henle 1838 A, 90 (Urolophus).

1841 A, 173 (Urolophus).

Parker and Haswell 1897 A, 160, fig. 788 (Urolophus).

Urobatis halleri (Cooper).

Cooper, J. G. 1863, Proc. Calif. Acad. Sci. iii, 96 (Urolophus).

Arnold, R. 1903 A, 47, 346 (Urolophus. This species?).

Daniel, J. F. 1922 A, 10, 32, figs. 10-20, 36, 42 (Urolophus).

Garman, S. 1913 A, 403 (Urobatis).

Hay, O. P. 1927 D, 171.

Jordan, D. S. 1907 A, 120 (Urolophus. This species?).

Jordan and Evermann 1896 A, 80 (Urolophus).

Jordan and Gilbert 1919 A, 62 (Urobatis).

Jordan and Hannibal 1923 A, 59.

Recent; Coast of California to northern Mexico: Pleistocene; California.

MYLIOBATIDÆ Owen.

Owen, R. 1846 E, 51. (See Richardson).

Hay, O. P. 1902 A, 319.

Abel, O. 1906 C, 84.

1912 F, 565.

1919 A, 128.

Agassiz, L. 1874 A, 133.

Arlt, T. 1907 D, 666.

1923 A, 489 ("myliobatiden").

Bridge, T. W. 1904 A, 465, 747.

Carus, V. 1875 A, 604.

Cope, E. D. 1891 N, 17.

Cunningham, J. T. 1912 A, 246.

Dollo, L. 1889 F, 341.

1904 C, 48.

Duméril, A. 1856 A, 145 ("myliobatides").

Fitzinger, L. J. 1873 A, 57 (Myliobatæ).

Fowler, H. W. 1911 A, 84.

Garman, S. 1908 A, 251.

1913 A, i, 259, 427 (Myliobatidæ); 259 (Myloidei, in part).

Goodrich, E. S. 1909 A, 165.

Gill, T. 1865 B, 135 (Myliobatides, Myliobatinæ, Aëtobatinæ).

Gregory, W. K. 1907 D, 446.

Hay, O. P. 1901 B, 68.

Hoernes, R. 1886 A, 545.

Huber, O. 1901 A, 634.

Imms, A. D. 1905 A, 46.

Jaekel, O. 1902 B, 134 ("myliobatiden").

1903 G, 389 ("myliobatiden").

Jordan, D. S. 1905 A, i, 557.

1907 B, 214.

1923 A, 105.

Jordan and Gilbert 1882 A, 49.

Kingsley, J. S. 1885 A, 89.

Leriche, M. 1907 B, 339.

Leunis and Ludwig 1883 A, 792.

Lönnberg, E. 1910 A, 11.

Pompeckj, J. F. 1913 A, 1131.

Porta, A. 1905 A, 234.

Radcliffe, L. 1916 A, 277.

Rauther, M. 1913 A, 1099.

Richardson, J. 1846 A, 198.

Roth, W. 1911 A, 547-548.

Schlosser, M. 1917 A, 145 (Myliobatinæ).

Stromer, E. 1904 A, 249 ("myliobatiden").

1904 B, 203 ("myliobatiden").

- Stromer, E. 1905 B, 38 (Myliobatidæ); 38, 43 (Myliobatinæ).
1912 A, 20.
Terra, P. 1911 A, 203.
Wallace, A. R. 1876 A, ii, 463.
Woodward, A. S. 1898 B, 53.
1904 B, 140.
Zittel and Koken 1911 A, 67 (Myliobatinæ).
Zittel and Schlosser 1923 A, 73 (Myliobatinæ).
Zittel and Woodward 1902 A, 43.

MYLIOBATIS Duméril. Type *Raja aquila* Linn.

- Hay, O. P. 1902 A, 319.
Abel, O. 1912 F, 435, fig. 320.
1919 A, 131, figs. 93, 95, 96.
Agassiz, L. 1874 A, 133.
Allis, E. P. 1923 B, 124.
Arlt, T. 1923 A, 489.
Bassani, F. 1905 A, 15.
Berry, E. W. 1916 A, 360.
Botti, U. 1877 A, 371 (Myliobates).
Bridge, T. W. 1904 A, 465.
Briquel, P. 1898 A, 16.
Bronn, H. G. 1848 A, 763 (Myliobates).
1849 A, 638.
Coulon, L. 1903 A, 131.
Daniel, J. F. 1922 A, figs. 9, 122, 125.
Deecke, W. 1913 A, 83 (Myliobates).
Dewey, M. 1918 A, 143, fig. 3.
Duméril, A. 1856 A, 138 (Myliobates).
Eastman, C. R. 1901 B, 98.
1904 H, 73.
Fowler, H. W. 1911 A, 84.
Fürbringer, K. 1903 A, 369.
Fürbringer, M. 1903 A, 625.
Garman, S. 1908 A, 252.
1913 A, 428.
Gaupp, E. 1905 D, 870.
Gegenbaur, C. 1870 C, 406.
Gervais, P. 1852 A, explan. pls. lxxvii, lxxix (Myliobates).
1859 A, 518, pls. lxxvii, lxxix (Myliobates).
Giebel, C. G. 1855 A, 117, pl. xlviii (Myliobates).
Goodrich, E. S. 1909 A, 166, fig. 130.
Harless, E. 1850 A, 843, pls. xxiii-xxv (Myliobates).
Haswell, W. A. 1884 A, 78.
Heilprin, A. 1887 A, 297, 300.
Huber, O. 1901 A, 634.
Humphreys, J. 1908 A, 12 (Myliobates).
Jacobshagen, E. 1923 A, 176.
Jaekel, O. 1911 A, 58, fig. 57.
Jordan, D. S. 1905 A, i, 557; ii, 582.
1907 B, 214.
1920 C, 573.
1923 A, 105.
Jordan and Beal 1913 A, 256.
Jordan and Gilbert 1882 A, 50.
Kingsley, J. S. 1925 A, 233, fig. 246.
Kner, R. 1860 B, 817.
Köstlin, O. 1844 A.
Leigh-Sharpe, W. H. 1926 A, 342.
Leriche, M. 1902 B, 101.
1905 A, 102.
1906 C, 418.
Leunis and Ludwig 1883 A, 792.
Mantell, G. A. 1844 A, 629.
Meckel, J. F. 1825 A (Raja).
Müller and Henle 1838 A, 91.
Owen, R. 1868 A, 894.
Priem, F. 1903 A, 396.
Priem, F. 1904 A, 285.
1908 B, 75, 93, figs. 48, 49.
1912 A, 242.
Probst, J. 1886 B, 305 (Myliobates).
Radcliffe, L. 1916 A, 277, pl. xlviii.
Ridewood, W. G. 1896 A, 381, 384.
1921 A, 392, fig. 37.
Sabatier, A. 1903 B, 1218 (Myliobates).
Semon, R. 1901 B, 132.
Serres, M. 1852 A, 117 (Myliobates).
Sloan, E. 1908 A, 278, 472.
Stannius, H. 1854 A.
Stefano, G. 1912 A, 413.
Stephan, P. 1900 A, 409.
Storms, R. 1891 A, 120 (Myliobates).
Stromer, E. 1904 A, 249.
1904 B, 203.
1905 B, 39.
1917 A, 19 (Myliobates).
Terra, P. 1911 A, 97, fig. 26.
Tomes, C. S. 1898 C, 346 (Myliobatis).
Weidenreich, F. 1926 A, 47.
Weiler, W. 1922 A, 96, pls. i, iii.
Woodward, A. S. 1889 I, 3, figs. 1, 2.
Zittel and Koken 1911 A, 67.
Zittel and Schlosser 1923 A, 73, figs. 123-125.
Zittel and Woodward 1902 A, 44.
- Myliobatis bisulcus Marsh.**
Hay, O. P. 1902 A, 320.
Fowler, H. W. 1911 A, 85, 87.
Eocene (Shark River); New Jersey.
- Myliobatis copeanus Clark.**
Hay, O. P. 1902 A, 320.
Clark and Miller 1912 A, 117, 118.
Eastman, C. R. 1901 B, 99, pl. xii, figs. 1, 2; pl. xiii, figs. 2a, 2b, 6, 7a, 7b.
Leriche, M. 1906 C, 187 (Syn. of *M. dixonii*).
Eocene (Nanjemoy and Aquia); Virginia, Maryland.
- Myliobatis fastigiatus Leidy.**
Hay, O. P. 1902 A, 320.
Eastman, C. R. 1904 H, 74.
Fowler, H. W. 1911 A, 85, figs. 41, 42.
Hussakof, L. 1908 A, 32.
Eocene (Shark River); New Jersey.
- Myliobatis frangens Eastman.**
Eastman, C. R. 1904 H, 75, pl. xxix, fig. 3.
Shattuck, G. B. 1904 A, xevi.
Miocene (Calvert); Maryland.
- Myliobatis gigas Cope.**
Hay, O. P. 1902 A, 320.
Eastman, C. R. 1904 H, 73, pl. xxviii, fig. 3; pl. xxix, fig. 1.
Shattuck, G. B. 1904 A, xevi.
Miocene (Calvert); Maryland.

Myliobatis glottoides Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73.
 Fowler, H. W. 1911 A, 88, fig. 43.
 Hussakof, L. 1908 A, 32, fig. 8.
 Eocene (Shark River); New Jersey.

Myliobatis holmesii Gibbes.

- Hay, O. P. 1902 A, 320.
 Cope, E. D. 1867 C, 140.
 Gibbes, R. W. 1850 B (No description).
 1850 G, 299, pl. xlii, figs. 1-3.
 Leidy, J. 1877 A, 234.
 Woodward, A. S. 1889 D, 122.
 (Phosphate beds); South Carolina.

Myliobatis jugosus Leidy.

- Hay, O. P. 1902 A, 320.
 Fowler, H. W. 1911 A, 90, fig. 45.
 Leriche, M. 1905 A, 182, fig. 52 (This species?).
 1906 B, 352 (This species?).
 1906 C, 192, fig. 38.
 Eocene (Manasquan?); New Jersey.

Myliobatis kummeli Fowler.

- Fowler, H. W. 1911 A, 95, figs. 49, 50.
 Miocene (Kirkwood); New Jersey.

Myliobatis leidy Hay.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73.
 Fowler, H. W. 1911 A, 91, fig. 46.
 Upper Cretaceous (Manasquan); New Jersey.

Myliobatis magister Leidy.

- Leidy, J. 1877 A, 233, pl. xxxiii, fig. 7.
 Eastman, C. R. 1901 B, 100, pl. xii, fig. 3; pl. xiii, figs. 1a, 1b.
 1904 H, 74.
 Fowler, H. W. 1911 A, 89, fig. 44.
 Leidy, J. 1876 E, 86 (No description).
 Upper Eocene (Manasquan); New Jersey:
 Eocene; South Carolina.

Myliobatis mordax Leidy.

- Hay, O. P. 1902 A, 320.
 Phosphate beds; South Carolina.

Myliobatis obesus (Leidy).

- Hay, O. P. 1902 A, 320 (M. rugosus in part).
 Fowler, H. W. 1911 A, 93, fig. 48.
 Berry, E. W. 1916 A, 360.
 Upper Cretaceous (Hornerstown, Vincentown, Manasquan); New Jersey: (Monmouth); Maryland,

Myliobatis pachyodon Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 74, 75, pl. xxix, fig. 2.
 Shattuck, G. B. 1904 A, xcvi.
 Miocene (Calvert); Maryland.

Myliobatis pachyrhizodus Fowler.

- Fowler, H. W. 1911 A, 97, fig. 51.
 Cretaceous (Manasquan); New Jersey.

Myliobatis rectidens Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73.
 Fowler, H. W. 1911 A, 92, fig. 47.
 Hussakof, L. 1908 A, 32, fig. 9.
 Upper Cretaceous (Navesink-Hornerstown); New Jersey.

Myliobatis rugosus Leidy.

- Hay, O. P. 1902 A, 320.
 Eocene; New Jersey.

Myliobatis transversalis Gibbes.

- Hay, O. P. 1902 A, 320.
 Eocene; South Carolina.

Myliobatis vicomicanus Cope.

- Hay, O. P. 1902 A, 320.
 Miocene (Calvert); Maryland.

Myliobatis sp. indet.

- Hay, O. P. 1902 A, 320.
 Hay, O. P. 1923 A, 381. Pleistocene (Early); Florida.
 Hopkins, F. V. 1871 A, 13. Eocene; Louisiana.
 Tuomey, M. 1848 A, 165, 166. Eocene; South Carolina.

MESOBATIS Leidy. Type *Aëtobatus eximius* Leidy.

- Hay, O. P. 1902 A, 320.
 Jordan, D. S. 1923 A, 105.

Mesobatis eximius Leidy.

- Hay, O. P. 1902 A, 320.
 Phosphate beds; South Carolina.

STOASODON Cantor. Type *Raja narinari* (Euphrasen).

- Unless otherwise indicated the authors, as quoted, use *Aëtobatus*.
 Hay, O. P. 1902 A, 321.
 Abel, O. 1906 C, 82 (*Aëtobatis*).
 1912 F, 565 (*Aëtobatis*).
 Arldt, T. 1923 A, 489 (*Aëtobatis*).
 Bridge, T. W. 1904 A, 465, 729 (*Aëtobatis*).
 Bronn, H. G. 1848 A, 18 (*Aëtobatis*).
 1849 A, 638 (*Aëtobatis*).
 Coulon, L. 1903 A, 131 (*Aëtobatis*).
 Duméril, A. 1856 A, 145 (*Aetobatys*).
 Eastman, C. R. 1901 B, 101 (*Aëtobatis*).
 Fowler, H. W. 1911 A, 98 (*Aetobatus*).
 Garman, S. 1908 A, 252.
 1913 A, 428.
 Giebel, C. G. 1855 A, 117 (*Aëtobatis*).
 Gill, T. 1865 B, 135 (*Aëtobatis*).
 Gudger, E. W. 1914 A.
 Hamburger, R. 1904 A, 73.
 Hay, O. P. 1901 B, 68.
 1909 C, 59.
 Heilprin, A. 1887 A, 300 (*Aëtobatis*).

Jordan, D. S. 1905 A, i, 557.

1907 B, 214.

1919 B, 242.

1923 A, 105.

Jordan and Beal 1913 A, 256 (Stoasodon).

Jordan and Evermann 1917 A, 95.

Jordan and Gilbert 1882 A, 50, 879 (Stoasodon).

Jordan and Hannibal 1923 A, 59 (Aëtobatus).

Klaatsch, H. 1901 A, 435.

Leriche, M. 1905 A, 107.

1906 C, 411 (Aëtobatis).

Müller and Henle 1838 A, 91 (Aëtobatis).

Owen, R. 1845 B, 46, pl. xxv, figs. 3, 4 (Myliobates, Aëtobatis).

Priem, F. 1903 A, 399.

1904 A, 286.

1908 B, 76, 94 (Aëtobatis).

Radcliffe, L. 1916 A, 278.

Ridewood, W. G. 1896 A, 384, 388.

Stromer, E. 1904 A, 260 (Aëtobatis).

1904 B, 205, fig. 3 (Aëtobatis).

Stannius, H. 1854 A (Aëtobatis).

Woodward, A. S. 1889 I, 5 (Aëtobatis).

Zittel and Koken 1911 A, 68.

Zittel and Schlosser 1923 A, 74 (Aëtobatis).

Zittel and Woodward 1902 A, 44.

Stoasodon aragonis Jordan and Hannibal.

Jordan and Hannibal 1923 A, 60, 61, pl. iii, figs. m, p (Aëtobatus).

Eocene (Arago); Oregon, California: (Tejon); California.

Stoasodon arcuatus (Agassiz).

Hay, O. P. 1902 A, 321 (Aëtobatus).

Clark and Miller 1912 A, 117, 118 (Aëtobatus).

Eastman, C. R. 1901 B, 102, pl. xiii, figs. 3a, 3b, 8 (Aëtobatus).

1904 H, 76, pl. xxix, fig. 5 (Aëtobatus).

Leriche, M. 1906 A, 295 (Aëtobatus).

Priem, F. 1912 A, 225 (Aëtobatus).

Shattuck, G. B. 1904 A, xevi (Aëtobatus).

Miocene (Calvert and St. Mary's); Maryland: Eocene (Nanjemoy and Aquia); Maryland, Virginia.

Stoasodon merriami (Jordan and Beal).

Jordan and Beal 1913 A, 245, 256, fig. 6 (Myliobatis).

Jordan and Gilbert 1919 A, 23 (Myliobatis).

Jordan and Hannibal 1923 A, 60, pl. iii, fig. z; pl. iv, fig. i (Aëtobatis).

Miocene (Monterey); California.

Stoasodon narinari (Euphrasen).

Euphrasen, Bengt. And., 1790, Vet. Akad. Nya Handl., xi, 217 (Raja).

Coles, R. J. 1910 A, 338 (Aëtobatus).

Duméril, A. 1865 A (1870), 641 (Aëtobatus).

Gudger, E. W. 1910 A, 58 (Aëtobatus).

1914 A, pls. and figs. (Aëtobatus).

Hay, O. P. 1917 E, 43 (Aëtobatus).

1923 A, 382, 383 (Aëtobatis).

Jaekel, O. 1911 A, 58 (Aëtobatus).

Jordan, D. S. 1905 A, i, 557, fig. 349 (Aëtobatus).

1907 B, 214, fig. 155 (Aëtobatus).

Jordan and Evermann 1896 A, 88 (Aëtobatus).

1900 A, pl. xvi (Aëtobatus).

Owen, R. 1845 B, 47, pl. xxv, figs. 3, 4 (Myliobates, Aëtobates, Aëtobatis).

Radcliffe, L. 1916 A, 278, pl. xlvii (Aëtobatus).

Stannius, H. 1854 A, 90 (Aëtobatis).

Recent; Atlantic Coast to Virginia: Pleistocene; Florida.

Stoasodon perspicuus (Leidy).

Hay, O. P. 1902 A, 321 (Aëtobatus).

Fowler, H. W. 1911 A, 99, fig. 52 (Aëtobatus).

Eocene? (Shark River?); New Jersey.

Stoasodon profundus (Cope).

Hay, O. P. 1902 A, 321 (Aëtobatus).

Eastman, C. R. 1904 H, 76 (Aëtobatus).

Miocene (Calvert); Maryland.

Stoasodon smithii Jordan and Beal.

Jordan and Beal 1913 A, 254, fig. b.

Agassiz, L. 1857 A, 316, fig. (Zygobatis sp.).

Jordan and Hannibal 1923 A, 59, pl. iii, figs. a, h, n; pl. iv, fig. f (Aëtobatis).

Oligocene (Vanqueros): Miocene (Monterey): San Pablo Jacalitos: Pliocene (San Diego): Pleistocene (Upper San Pedro). All in California.

Stoasodon sp. indet.

Jordan, D. S. 1907 A, 119 (Aëtobatus). Miocene; California.

PLINTHICUS Cope. Type *P. stenodon* Cope.

Hay, O. P. 1902 A, 321.

Fowler, H. W. 1911 A, 100.

Jordan, D. S. 1923 A, 105.

Plinthicus stenodon Cope.

Hay, O. P. 1902 A, 321.

Fowler, H. W. 1911 A, 100, fig. 53.

Hussakof, L. 1908 A, 33, fig. 10.

Miocene (Kirkwood); New Jersey.

RHINOPTERIDÆ Jordan.

Jordan, D. S. 1923 A, 105.

RHINOPTERA Kuhl. Type *Myliobatis marginatus* Geoff. St. Hilaire.

Hay, O. P. 1902 A, 321.

Arlt, T. 1923 A, 489.

Bateson, W. 1892 A, 112, fig. 5.

Bridge, T. W. 1904 A, 465.

Fowler, H. W. 1911 A, 101.

Garman, S. 1908 A, 252.

1913 A, 443.

Giebel, C. G. 1855 A, 117 (Zygobates).

Hay, O. P. 1901 B, 68.
 Jordan, D. S. 1905 A, i, 557.
 1907 B, 214.
 1919 B, 173.
 Jordan and Evermann 1898 A, 90.
 Jordan and Gilbert 1882 A, 51.
 Müller and Henle 1838 A, 91.
 Owen, R. 1866 A, 82.
 Ridewood, W. G. 1921 A, 391, fig. 36.
 Stannius, H. 1854 A.
 Stromer, E. 1904 A, 251 (Zygobatis).
 Woodward, A. S. 1889 I, 5.
 Zittel and Schlosser 1923 A, 74.

Rhinoptera dubia Leidy.

Leidy, J. 1855 C, 396 (Zygobates).
 Hay, O. P. 1902 A, 321.

Fowler, H. W. 1911 A, 102, figs. 54-57.
 Leidy, J. 1877 A, 247, pl. xxxi, figs. 21-37.
 (Zygobates).
 Upper Eocene; New Jersey: Miocene;
 Maryland, New Jersey.

Rhinoptera smithii Jordan and Beal.

Jordan and Beal 1913 A, 246, 254, fig. e.
 Jordan and Gilbert 1919 A, 23.
 Miocene (Monterey); California.

Rhinoptera sp. indet.

Hay, O. P. 1902 A, 321 Miocene; California.
 Blake, W. P. 1857 A, 172 (Zygobates). Mio-
 cene; California.

MOBULIDÆ Gill.

Gill, T. 1893 A, 130.
 Hay, O. P. 1902 A, 321 (Mantidæ).
 Backman, G. 1913 A, 48 (Ceratoptera).
 Fitzinger, L. J. 1873 A, 57 (Cephaloptera).
 Garman, S. 1913 A, 448.
 Gill, T. 1908 B, 162.
 Jordan, D. S. 1905 A, i, 559.

Jordan, D. S. 1907 B, 216, 759.
 1923 A, 105.
 Leigh-Sharpe, W. H. 1926 A, 342 (Dicero-
 batidæ).
 Pellegrin, J. 1912 A, 91 ("diablos de mer").
 1912 B, 721 ("diablos de mer").
 Radcliffe, L. 1916 A, 279.

MANTA Bancroft. Type *Raia birostris* Walbaum.

Hay, O. P. 1902 A, 321.
 Abel, O. 1919 A, 131, figs. 93, 94 (Ceratoptera).
 Arltdt, T. 1923 A, 489 (Ceratoptera).
 Bridge, T. W. 1904 A, 465 (Ceratoptera).
 Coles, R. J. 1916 A, 217, 8 figs.
 1916 B, 649, figs. 1-5.
 Duméril, A. 1856 A, 146 (Ceratoptera).
 Garman, S. 1913 A, 449, 454.
 Gill, T. 1908 B, 176.
 Holmes, F. S. 1856 A, 39, pl. iii (Diabolichthys).
 Jaekel, O. 1902 B, 134 (Ceratoptera).
 Jordan, D. S. 1905 A, i, 560; ii, 580.
 1907 B, 217.

Jordan, D. S. 1923 A, 105.
 Jordan and Gilbert, 1882 A, 52.
 Müller and Henle 1837 A, 401 (Ceratoptera).
 1838 A, 91 (Ceratoptera).
 Pellegrin, J. 1912 A, 91.
 1912 B, 722.
 Radcliffe, L. 1916 A, 279, 280.

Manta unios (Leidy).

Hay, O. P. 1902 A, 322.
 Gill, T. 1908 B, 160 (Ceratoptera).
 Phosphate beds; South Carolina.

Subclass HOLOCEPHALA Bonaparte.

Unless otherwise indicated the authors, as
 quoted, employ the name *Holocephala*, or
Holocephali.

Hay, O. P. 1902 A, 322.
 Abel, O. 1912 F, 440, 448, 677.
 1919 A, 140.
 1920 A, 330 ("holocephalen").
 Allis, E. P. 1905 A, 495.
 1915 A, 593 ("holocephalen").
 1926 B, 334.
 Arltdt, T. 1907 D, 658.
 1923 A, 490 ("holocephalen").
 Backman, G. 1915 A.
 Bardeleben, K. 1903 A, 20 ("holocephalen").
 Bessels, E. 1869 A, 153 ("holocephalen").
 Boas, J. E. V. 1914 B ("chimären").
 Bonaparte, C. L. 1831 A, 98, 121 (Acanthorrini).
 1838 C, 214.
 1840 A, 46.
 Bridge, T. W. 1896 A, 534.
 1904 A, 466, 743.
 Bronn, H. G. 1849 A, 830, seq.
 Carter, J. T. 1905 A, 136.

Carus, V. 1875 A, 598.
 Collinge, W. E. 1895 C, 888.
 Cope, E. D. 1871 T, 449.
 1885 BB, 64.
 1891 N, 10, 14 (Holocephali, Chimæroidei).
 Coulon, L. 1903 A, 132 ("holocéphales").
 Cunningham, J. T. 1912 A, 246.
 Day, E. C. H. 1865 A, 565.
 Dean, B. 1900 A, 22, 27 (Holocephali).
 1900 C, 169.
 1903 A, 285 ("holocephala").
 1906 B, ("chimaeroids").
 1909 C, 243.
 Dollo, L. 1889 E, 152 ("chimères").
 1896 A, 110 ("holocéphales").
 1904 C, 47 ("holocéphales").
 1906 B, 135 ("holocéphales").
 1907 B, 100 ("holocéphales").
 Eastman, C. R. 1907 B, 23, 65.
 1908 A, 69, 117.
 1911 A, 20.
 Fahrenheit, C. 1915 A, 407 ("holocephalen").
 Fitzinger, L. J. 1873 A, 53.

- Fowler, H. W. 1911 A, 108.
 Frassetto, F. 1915 A ("olocefali").
 Fuchs, H. 1909 B, 165 ("holocephalen").
 Fürbringer, K. 1903 A, 362.
 Fürbringer, M. 1902 A, 186 ("holocephalen").
 1904 A ("holocephalen").
 1904 B, 458 ("holocephalen").
 Garman, S. 1904 A, 243 (Chismopnea).
 1911 A, 81 (Chismopnea).
 1913 A, 9 (Chismopnea).
 Gaupp, E. 1898 B, 860 ("holocephalen").
 1905 D, 873 ("holocephalen").
 Gegenbaur, C. 1867 B, 378.
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1904 A, 471.
 1909 A, 168.
 Greene, J. R. 1861 A, 227.
 Gregory, W. K. 1904 A, 58.
 1907 D, 447.
 Haeckel, E. 1868 A, 443, 444.
 1873 A, 516.
 1893 A, xviii.
 Hase, A. 1907 A, 655 ("holocephalen").
 Hilzheimer, M. 1913 A, 470.
 Hoernes, R. 1886 A, 539.
 Huber, O. 1901 A, 598.
 Huxley, T. H. 1863 F, 372.
 1876 E, 103.
 Imms, A. D. 1905 A, 46.
 Jacobshagen, E. 1920 A, 88 ("holocephalen").
 Jaekel, O. 1901 A, 556 ("holocephalen").
 1903 D, 59 ("holocephalen").
 1903 F, 36 ("holocephalen").
 1903 G, 383 ("holocephalen").
 1906 C, 156 ("holocephalen").
 1906 D, 180 ("holocephalen").
 1911 A, 52.
 1913 A, 91 ("holocephalen").
 1919 A, 75, 91, 93.
 1926 A, 172 ("holocephalen").
 Jordan, D. S. 1905 A, i, 508, 561; ii, 575.
 1907 B, 182, 219, 759.
 1923 A, 105 (Chimæroidei).
 Jordan and Gilbert 1882 A, 53.
 1885 A, 71.
 Keyes, C. 1922 A, pl. iii.
 Kiaer, J. 1924 A, 108.
 1928 A, 131.
 Kingsley, J. S. 1900 A, 249.
 1925 A, 654.
 Klaatsch, H. 1893 B, 666 ("holocephalen").
 1893 C, 148 ("holocephalen").
 Lakjer, T. 1927 A, 289 ("holocephalen").
 Latreille, P. A. 1825 A, 111 (Acanthorina).
 Leigh-Sharp, W. H. 1926 A, 336, 342.
 Leunis and Ludwig 1883 A, 781.
 Lönnberg, E. 1901 A.
 1902 A.
 Luther, A. 1909 A, 3, 30 ("holocephalen").
 Lütken, C. 1868 C (Chimæri).
 Mayhew, R. L. 1924 A, 331 ("chimæras").
 Meek, A. 1916 A, 46, 412.
 Müller, J. 1845 A, 137.
 Nishi, S. 1920 A, 27 ("chimären").
 Owen, R. 1845 B, 64 ("chimaeroids").
 1866 A, 12, 35, 41.
 Parker, T. J. 1886 A, 635.
 Parker and Haswell 1897 A, 173.
 Patten, W. 1912 A, 385.
 Petronievics, B. 1919 A, 412 ("holocéphales").
 Pompeckj, J. F. 1913 A, 1131.
 Priem, F. 1908 B ("holocéphales").
 Rabinerson, A. 1925 A, 450, 483.
 Rabl, C. 1901 A, 489 ("holocephalen").
 Rauther, M. 1913 A, 1099.
 Regan, C. T. 1906 A, 726 (Chasmatopnea).
 1912 A, 836.
 Reis, O. M. 1893 A, 509 ("holocephalen").
 1894 A, 62 ("holocephalen").
 Reynolds, S. H. 1897 A, 106, 109, 111, 121, 543.
 Ridewood, W. G. 1896 A, 386.
 Rosén, N. 1916 A, 11.
 Roth, W. 1911 A, 514.
 Ryder, J. 1886 A, 74.
 Sabatier, A. 1904 A, 249 ("holocéphales").
 Sagemehl, M. 1883 A ("holocephalen").
 Schauinsland, H. 1906 A, 360 ("holocephalen").
 Schlosser, M. 1917 A, 136, 137, 139 ("holocephalen").
 Schmalhausen, J. J. 1913 A, 61.
 1918 A, 208.
 1923 A, 537.
 Semon, R. 1901 B, 133 ("holocephalen").
 Sewertzoff, A. N. 1923 B.
 1926 A, 536.
 Shann, E. W. 1919 A, 532.
 Stannius, H. 1854 A (Chimaerae).
 Steinmann, G. 1907 A, 405.
 Stensiö, E. A. 1925 B, 188.
 Stephan, P. 1900 A, 313 ("holocéphales").
 Stromer, E. 1912 A, 24, 48.
 Suschkin, P. 1910 A, 248 ("holocephalen").
 Terra, P. 1911 A, 204 (Holocephali).
 Traquair, R. H. 1900 C, 506.
 Van Wijhe, J. W. 1922 A, 291 ("holocephalen").
 Versluys, J. 1922 B, 102.
 Wilder, B. 1876 A, 183.
 Woodward, A. S. 1915 B, lxix.
 1922 C, 76.
 1924 B, 338.
 Zittel and Koken 1911 A, 69.
 Zittel and Schlosser 1923 A, 47.
 Zittel and Woodward 1902 A, 44.

Order CHIMÆROMORPHI, new name.

Superfamily CHIMÆROIDÆ new form.

- Hay, O. P. 1902 A, 322 (Chimæroidea).
 Barrell, J. 1915 B, 393.
 Dean, B. 1900 A, 28 ("chimæroids").
 1906 B, ("chimæroids").
 1908 A, 204 ("chimæroids").
 1912 A, 227 ("chimæroids").
 Dollo, L. 1904 C, 47 ("chiméroides").
 Eastman, C. R. 1900 J, 287 ("chimæroids").
 1907 B, 23, 66 (Chimæroidei).
 1908 A, 69, 118 (Chimæroidei).
 Fowler, H. W. 1911 A, 109 (Chimæroidea).
 Garman, S. 1904 A, 245 ("chimæroids").

Gegenbaur, C. 1870 C, 399 ("chimären").
 Gill, T. 1905 B, 60 ("chimæroid").
 Gregory, W. K. 1907 D, 447 (Chimæroidea).
 Haeckel, E. 1873 A, 516 (Chimæracei).
 Hussakof, L. 1906 A, 124 ("chimæroids").
 Huxley, T. H. 1876 A, 57, 59 (Chimæroidei).
 1876 E, 121, 124 (Chimæroidei).

Huxley, T. H. 1883 B, 571 (Chimæroideri).
 Jaekel, O. 1901 A, 540 ("chimäriden").
 Owen, R. 1845 B, 64 ("chimæroids").
 1846 E, 51 (Chimæroidei).
 Parker, T. J. 635 (Chimæra).
 Regan, C. T. 1912 A, 836 (Chasmatopnea).
 Woodward, A. S. 1921 B, 39 ("chimæroids").

CHIMÆRIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 98.
 Hay, O. P. 1902 A, 323.
 Abel, O. 1912 F, 665 ("chimæriden").
 1919 A, 143.
 Agassiz, L. 1844 D, 142 ("chimæridés").
 Allis, E. P. 1917 A, 133 ("chimæroids").
 Arltdt, T. 1907 D, 645.
 1923 A, 490 ("chimæriden").
 Backman, G. 1915 A.
 Bonaparte, C. L. 1833 B, 1203.
 Bridge, T. W. 1904 A, 468.
 Briquel, P. 1893 A, 16 ("chimères").
 Cunningham, J. T. 1912 A, 246.
 Cuvier, G. 1805 A ("chimères").
 1815 A, 127 ("chimères").
 Day, E. C. H. 1865 A, 565 ("Chimæroids").
 Dean, B. 1900 C, 169 ("chimæroids").
 1903 A, 270, 284 ("chimæroid").
 1904 A, 51 ("chimæroid fishes").
 1904 E, 105 ("chimæroids").
 1906 B, ("chimæroids").
 1912 B, 37 ("chimæroids").
 Dollo, L. 1904 C, 50.
 Egerton, P. G. 1852 C, 6B, 2 ("chimæroids").
 Fitzinger, L. J. 1873 A, 54 (Chimærae).
 Fowler, H. W. 1911 A, 109.
 Fürbringer, M. 1902 A, 172 ("chimæriden").
 1904 B ("chimäriden").
 Garman, S. 1904 A, 271.
 1911 A, 82.
 1913 A, 9.
 Gaupp, E. 1893 B, 841 ("chimæren").
 Gegenbaur, C. 1866 A, 123 ("chimæren").
 1867 B, 391 ("chimæren").
 1870 B, 448 ("chimæren").
 Goodrich, E. S. 1909 A, 176.
 Gregory, W. K. 1907 D, 447.
 Hay, O. P. 1901 B, 68.

Hoernes, R. 1866 A, 539.
 Huber, O. 1901 A, 636.
 Humphreys, J. 1908 A, 11 ("chimæras").
 Huxley, T. H. 1859 D, 418 (Chimærae).
 1876 E, 86.
 Jaekel, O. 1901 A, 540 ("chimäriden").
 1902 A, 107 ("chimäriden").
 1903 G, 386 ("chimäriden").
 1928 A, 43 ("chimæren").
 Jordan, D. S. 1905 A, i, 564.
 1907 B, 221, 759.
 1923 A, 106.
 Jordan and Gilbert 1882 A, 53.
 Kingsley, J. S. 1885 A, 72.
 Köstlin, O. 1844 A ("chimären").
 Leriche, M. 1906 C, 273.
 Leunis and Ludwig 1883 A, 781.
 Meckel, J. F. 1825 A ("chimæren").
 Owen, R. 1846 E, 51 (Edaphodontidæ).
 1866 A, 13.
 Parker and Haswell 1897 A, 174.
 Pompeckj, J. F. 1913 A, 1132 ("chimæriden").
 Rauther, M. 1913 A, 1099.
 Schlausinsland, H. 1903 A, 5, pls. xii-xviii, xxi-xxiv (Callorhynchus).
 Schlosser, M. 1917 A, 141.
 Stannius, H. 1854 A (Chimærae).
 Storms, R. 1894 A, 67 ("chimérides").
 Terra, P. 1911 A, 204.
 Traquair, R. H. 1900 C, 506 ("chimæroids").
 Wagner, R. 1843 A ("chimären").
 Wallace, A. R. 1876 A, ii, 460.
 Woodward, A. S. 1912 A (1909), 182.
 1920 B, 5 ("chimæroids").
 Zittel and Koken 1911 A, 70.
 Zittel and Schlosser 1923 A, 76.
 Zittel and Woodward 1902 A, 46.

CHIMÆRA Linn. Type *C. monstrosa* Linn.

Hay, O. P. 1902 A, 324.
 Abel, O. 1912 F, 440, fig. 324.
 Allis, E. P. 1905 A, 472.
 1909 A, 74.
 1917 A, 105, pls. i-iii.
 1922 B, 199.
 1923 B, 156.
 Arltdt, T. 1923 A, 490.
 Bessels, E. 1869 A, 154.
 Braus, H. 1906 B, 553.
 Bridge, T. W. 1904 A, 469, 735.
 Bronn, H. G. 1848 A, 290.
 Collinge, W. E. 1895 C, 878.
 Davidoff, M. 1879 A, 470.
 Dean, B. 1900 A, 28.
 1904 B, 14.
 Evans, H. M. 1923 A, 16, 29.
 Garman, S. 1911 A, 83.

Gaupp, E. 1905 D, 873.
 Goette, A. 1878 A, 841.
 Goodrich, E. S. 1901 A, 313, fig. B.
 Gregory, W. K. 1904 A, 57, fig. 11.
 Hay, O. P. 1901 B, 68.
 Hoeven, J. 1822 A.
 Huxley, T. H. 1863 F, 372, 428, figs. 30, 31.
 1869 G, 453.
 Jaekel, O. 1901 A, 547.
 1903 F, 36 (Chimarra).
 1905 C, 146, fig. 14.
 1906 A, 16, fig. 9.
 1926 A, 173.
 1926 B, 42 ("chimæren").
 1926 D, 71 ("holocephalen").
 Jaquet, M. 1897 A, 174, pls. v-viii.
 1898 B, 300, pls. xxiv-xxix.
 1900 A, 60.

Jordan, D. S. 1905 A, i, 563; ii, 563.
1917 A, 11.
1923 A, 106.

Jordan and Evermann 1917 A, 11.

Kerr, J. G. 1908 A, 169.

Kingsley, J. S. 1925 A, 29, 88, figs. 30, 91.

Klaatsch, H. 1893 A, 148.

Kolmer, W. 1923 A, 529, figs. 1, 2 (Chimæra).

Lakjer, T. 1927 A, 283.

Leidig, F. 1851 A, 241.

Leigh-Sharpe, W. H. 1926 A, 343.

Luther, A. 1909 A, 31.

Meek, A. 1916 A, 45, 46.

Mivart, St. G. 1878 B, 331.

Nishi, S. 1920 A, 28, figs. 1-8.

Norman, E. W. 1926 A, 452.

Parker, W. K. 1879 C, 336.

Parker and Haswell 1897 A, 174, figs. 799-802.

Rabinerson, A. 1925 A, 443, 450, fig. 3; 483.
fig. 1; 513.

Reynolds, S. H. 1897 A, 536.

Romer, A. S. 1928 A, 433.

Ryder, J. 1885 E, 91.

Sewertzoff, A. N. 1923 A, 391.

Schmalhausen, J. J. 1916 C, 213.

Shann, E. W. 1919 A, 547.

Solger, B. 1879 A, 95, pl. viii.

Stephan, P. 1900 A, 311.

Versluys, J. 1922 B, 98.

Zittel and Schlosser 1923 A, 75, fig. 129

At present no fossil American species of this genus is known.

EDAPHODON Buckland. Type *Chimæra mantelli* Buckland.

Hay, O. P. 1902 A, 324.

Abel, O. 1919 A, 145, fig. 111.

Bronn, H. G. 1848 A, 452.
1849 A, 637.

Coulon, L. 1903 A, 133 (Ischyodus).

Dean, B. 1906 B, 134, 150, fig. 123.
1909 C, 259 (Ischyodus).

Egerton, P. G. 1843 A, 155 (Ischyodus).
1852 C, 6 B, 2.

Fowler, H. W. 1911 A, 110.

Giebel, C. G. 1855 A, 118.

Hay, O. P. 1901 B, 68.

Hussakof, L. 1912 A, 202, fig. 18a.

Jaekel, O. 1901 A, 547.

Jordan, D. S. 1919 B, 191.
1923 A, 106.

Leriche, M. 1905 A, 137.
1906 C, 414.

Newton, E. T. 1876 A, 329.

Owen, R. 1845 B, 66, 67.

Priem, F. 1907 C, 42.
1908 B, 42.

Probst, J. 1886 B, 312.

Storms, R. 1894 A, 73.

Woodward, A. S. 1912 A (1909), 183, pl. xxxix,
text-figs. 52-55.
1912 A (1911), 185, pls. xl, xli.
1922 C, 76, fig. 77.

Zittel and Koken 1911 A, 72.

Zittel and Schlosser 1923 A, 77, fig. 132.

Zittel and Woodward 1902 A, 48.

Edaphodon agassizi (Buckland).

Buckland, W. 1835, Proc. Geol. Soc. Lond., ii,
206 (Chimaera).

Hay, O. P. 1902 A, 324 (E. smockii).

Agassiz, L. 1843 B, 341, pl. xl, a, figs. 3, 4;
pl. xl, c, fig. 16 (Chimæra).

Egerton, P. G. 1843, Proc. Geol. Soc. Lond., iv,
156 (Ischyodus).

Fowler, H. W. 1911 A, 115, fig. 66 (E. smockii).

Geinitz, H. B. 1875 A, 206, pl. xxxix, figs. 8-10
(Chimæra).

Hussakof, L. 1908 A, 39, pl. ii, figs. 4, 5 (E.
smockii).

1912 A, 213, figs. 10, 11 (Ischyodus smockii
a syn.).

Newton, E. T. 1878 C, 12, pl. iii.

Woodward, A. S. 1891 A, 77.

Cretaceous (Danian); Europe: Cretaceous
(Hornerstown); New Jersey.

Edaphodon eocænus (Cope).

Hay, O. P. 1902 A, 324.

Fowler, H. W. 1911 A, 116, fig. 67.

Hussakof, L. 1908 A, 37, fig. 14.

Eocene (Shark River); New Jersey.

Edaphodon laqueatus (Leidy).

Hay, O. P. 1902 A, 324.

Hussakof, L. 1912 A, 200, 217, fig. 13.
Upper Cretaceous; Mississippi.

Edaphodon laterigerus (Cope).

Hay, O. P. 1902 A, 324.

Fowler, H. W. 1911 A, 113, fig. 65.

Hussakof, L. 1908 A, 38, pl. i, figs. 7, 8.
1912 A, 211, fig. 8.

Upper Cretaceous (Hornestown); New Jersey.

Edaphodon mirificus Leidy.

Hay, O. P. 1902 A, 324 (E. divaricatus, E.
fecundus, E. gaskillii, E. incrassatus, E. lati-
dens, E. longirostris, E. miersii, E. mono-
lophus); 325 (E. solidulus).

Cope, E. D. 1871 G, 384 (Ischyodus solidulus).

Fowler, H. W. 1911 A, 113 (Ischyodus longiro-
stris); 122, figs. 71-75 (E. mirificus); 119, figs.
69, 70 (E. fecundus); 118, fig. 68 (E. incras-
satus); 124, fig. 76 (E. divaricatus); 128, fig.
78 (E. latidens); 123 (E. miersii); 127, fig. 77
(E. solidulus); 123 (Ischyodus monolophus, I.
gaskilli).

Hussakof, L. 1908 A, 38; pl. ii, fig. 3, text-figs.
3-7 (E. mirificus); pl. i, figs. 1-4 (E. fecun-
dus); pl. i, figs. 5, 6 (E. incrassatus); 38,
text-fig. 15 (E. latidens); 39, pl. ii, figs. 1, 2
(E. solidulus).

1912 A, 204, pl. xix; pl. xx, figs. 1-3; text-
figs. 2a-7 (E. divaricatus fecundus, gas-
killii, incrassatus, latidens, longirostris,
miersii, monolophus, solidulus, as syn.).

Upper Cretaceous (Hornestown); New Jer-
sey.

Edaphodon stenobryus (Cope).

- Hay, O. P. 1902 A, 325.
 Fowler, H. W. 1911 A, iii, fig. 63.
 Hussakof, L. 1908 A, 39, pl. ii, figs. 6, 7.
 1912 A, 203, 213, figs. 2e, 9.
 Upper Cretaceous (Hornerstown); New Jersey.

Edaphodon tripartitus (Cope).

- Hay, O. P. 1902 A, 325.
 Fowler, H. W. 1911 A, 112, fig. 64.

- Hussakof, L. 1908 A, 40, pl. iii, figs. 5, 6 (E. longirostus a syn.).
 1912 A, 215, fig. 12 (E. sedgwicki).
 Upper Cretaceous (Hornerstown); New Jersey.

Edaphodon sp. indet.

- Fowler, H. W. 1911 A, 129-131, figs. 79-82 (Undetermined specimen).
 Upper Cretaceous (Hornerstown); New Jersey.

ELASMODUS Egerton. Type *E. (Chimæra) hunteri* Egert.

- Egerton, P. G. 1843 A, 156.
 Dean, B. 1909 C, 267.
 Egerton, P. G. 1847 A, 351.
 Jordan, D. S. 1919 B, 214.
 1923 A, 106.
 Newton, E. T. 1876 A, 329.
 Nicholson and Lydekker 1889 A, 951.
 Woodward, A. S. 1898 B, 59, figs. 46, 47.
 1891 A, 88.
 Zittel, K. A. 1890 A, 112.

Elasmodus? gilli, new species.

- Darton and Siebenthal 1910 A, 10 ("chimæroid fish").
 Dean, B. 1909 C, 265, pl. xxxvii ("egg-capsule," Elasmodus?).
 Gill, T. 1905 B, 601 ("chimæroid egg-case").
 Hussakof, L. 1912 A, 224 ("fossil egg-case").
 Upper Cretaceous (Mesaverda); Wyoming.

MYLOGNATHUS Leidy. Type *M. priscus* Leidy.

- Hay, O. P. 1902 A, 325.
 Dean, B. 1906 B, 134, 150.
 Hay, O. P. 1901 B, 68.
 Jordan, D. S. 1923 A, 106.
 Osborn, H. F. 1902 I, 16.

Mylognathus priscus Leidy.

- Hay, O. P. 1902 A, 325.
 1903 D, 117.
 Osborn, H. F. 1902 I, 11.
 Paleocene (Fort Union); North Dakota.

BRYACTINUS Cope. Type *B. amorphus* Cope.

- Hay, O. P. 1902 A, 325.
 Fowler, H. W. 1911 A, 134.
 Hay, O. P. 1901 B, 68.
 Hussakof, L. 1912 A, 223.
 Jordan, D. S. 1919 B, 191 (syn. of Edaphodon).
 1923 A, 106.

Bryactinus amorphus Cope.

- Hay, O. P. 1902 A, 325.
 Cope, E. D. 1875 E, 282, pl. xlv, fig. 13.
 Fowler, H. W. 1911 A, 134; fig. 83.
 Hussakof, L. 1908 A, 37, fig. 13.
 1912 A, 223; figs. 19, 20.
 Upper Cretaceous (Hornerstown); New Jersey.

ISOTÆNIA Cope. Type *I. neocæsariensis* Cope.

- Hay, O. P. 1902 A, 325.
 Fowler, H. W. 1911 A, 135.
 Hay, O. P. 1901 B, 68.
 Hussakof, L. 1912 A, 222, fig. 18b.
 Jordan, D. S. 1923 A, 106.

Isotænia neocæsariensis Cope.

- Hay, O. P. 1902 A, 325.
 Fowler, H. W. 1911 A, 135, fig. 84.
 Hussakof, L. 1908 A, 41; pl. iii, figs. 3, 4.
 1912 A, 222, fig. 7.
 Upper Cretaceous (Hornerstown); New Jersey.

LEPTOMYLUS Cope. Type *L. densus* Cope.

- Hay, O. P. 1902 A, 325.
 Dean, B. 1906 B, 134.
 Fowler, H. W. 1911 A, 136.
 Hussakof, L. 1912 A, 218.
 Jordan, D. S. 1923 A, 106.
 Palmer, T. S. 1904 A, 372, 843.
 Storms, R. 1894 A, 73.

Leptomylus cookii Cope.

- Hay, O. P. 1902 A, 325.
 Cope, E. D. 1871 Q, 384.
 Fowler, H. W. 1911 A, 137; fig. 85.

- Hussakof, L. 1908 A, 41; pl. ii, figs. 8, 9.
 1912 A, 219, fig. 14.
 Upper Cretaceous (Navesink-Hornerstown); New Jersey.

Leptomylus densus Cope.

- Hay, O. P. 1902 A, 325.
 Cope, E. D. 1871 Q, 384.
 Fowler, H. W. 1911 A, 138.
 Hussakof, L. 1912 A, 218.
 Upper Cretaceous (Navesink-Hornerstown); New Jersey.

Leptomylus forfex Cope.

Hay, O. P. 1902 A, 325.

Fowler, H. W. 1911 A, 139; fig. 86.

Hussakof, L. 1908 A, 41; pl. iii, figs. 1, 2.

1912 A, 221; figs. 15, 16.

Upper Cretaceous (Navesink-Hornerstown);
New Jersey.**SPHAGEPCEA** Cope.

Hay, O. P. 1902 A, 325.

Fowler, H. W. 1911 A, 143.

Hay, O. P. 1901 B, 68.

Jordan, D. S. 1923 A, 106.

Sphagepcea aciculata Cope.

Hay, O. P. 1902 A, 325.

Fowler, H. W. 1911 A, 144, fig. 89.

Type *S. aciculata* Cope.

Hussakof, L. 1908 A, 50, fig. 22.

1912 A, 224, fig. 21.

Upper Cretaceous (Hornerstown); New Jersey.

The systematic positions of the following
three genera are not known.**DICTYORHABDUS** Walcott.

Hay, O. P. 1902 A, 325.

Clarke, J. M. 1895 A, 121 ("fossil fishes").

Jordan, D. S. 1905 A, i, 565, ii, 566.

1923 A, 106.

Romer, A. S. 1928 A, 433.

Stromer, E. 1920 A, 10.

Vaillant, L. 1902 A, 1321 ("poissons." This
genus?).

Walcott, C. D. 1891 A, 245 ("fish").

Type *D. priscus* Walcott.**Dictyorhabdus priscus** Walcott.

Hay, O. P. 1902 A, 325.

Cockerell, T. D. A. 1908 C, 162.

Dean, B. 1906 B, 133, figs. 113, 114.

Eastman, C. R. 1907 B, 12, 67.

1908 A, 119.

Jaekel, O. 1892 C, 168 ("fish remains").

1895 D, 162.

Jordan, D. S. 1907 B, 222.

Merrill, G. P. 1907 A, 10.

Ordovician; Colorado.

HEDRONCHUS Cope.Type *H. sternbergi* Cope.

Hay, O. P. 1902 A, 326.

Cockerell, T. D. A. 1908 C, 162.

Jordan, D. S. 1923 A, 106.

Hedronchus sternbergi Cope.

Hay, O. P. 1902 A, 326.

Bowen, C. F. 1915 A, 118, 149, 150.

Cockerell, T. D. A. 1908 C, 162.

Hatcher, J. B. 1905 B, 69 (*H. sternbergii*).

Osborn, H. F. 1902 I, 11, 16.

Sternberg, C. H. 1903 C, 872 ("*Hedronchus*").

1914 A, 134.

Upper Cretaceous (Judith River); Montana.

MYLEDAPHUS Cope.Type *M. bipartitus* Cope.

Hay, O. P. 1902 A, 326.

Cockerell, T. D. A. 1908 C, 162.

Cope, E. D. 1880 U, 148.

Jordan, D. S. 1923 A, 106.

Osborn, H. F. 1902 I, 16.

Priem, F. 1901 A, 500.

Stanton and Hatcher 1905 A, 38.

Sternberg, C. H. 1909 A, 113.

1917 A, 84, 116.

Williston, S. W. 1902 K, 953 (=?*Rhombodus*).**Myledaphus bipartitus** Cope.

Hay, O. P. 1902 A, 326.

Bowen, C. F. 1915 A, 118, 148, 149.

Brown, B. 1914 E, 378.

Cockerell, T. D. A. 1908 C, 162.

Gilmore, C. W. 1916 D, 302, pl. lxxvii, fig. 4
(This species?).

1924 D, 27.

Hatcher, J. B. 1903 D, 372.

1905 B, 68.

Hay, O. P. 1910 A, 313.

1910 B, 296.

Hussakof, L. 1908 A, 32, fig. 7.

Lambe, L. M. 1902 A, 28, pl. xix, figs. 1, 2.

Lambe, L. M. 1904 C, 21, 36, 41.

1907 B, 179.

1914 H, 398, 401.

1915 B, 120.

Matthew, W. D. 1916 A, 485.

Osborn, H. F. 1902 I, 11.

Peale, A. C. 1912 A, 746, 754.

Priem, F. 1901 F, 500.

Sternberg, C. H. 1903 B, 357.

1903 C, 871.

1909 C, 78, fig. 13.

1914 A, 134.

1915 A, 132.

1924 A, 68 (*Myledaphus*).

Sternberg, C. M. 1926 A, 103, 104.

Williston, S. W. 1902 K, 953.

Upper Cretaceous (Judith River); Montana;
(Belly River); Alberta: (Lance); Wyoming,
Saskatchewan.**Myledaphus** sp. indet.Gilmore, C. W. 1920 A, 8. Upper Cretaceous
(Kirtland); New Mexico.Reeside, J. B. 1924 A, 23. Upper Cretaceous
(Kirtland); New Mexico.

ICHTHYODORULITES.

Hay, O. P. 1902 A, 326.
 Agassiz, L. 1835 B, 337.
 1835 I, 101.
 1839 A, 597.
 Bronn, H. G. 1848 A, 604.
 Dollo, L. 1889 F, 335.
 Eastman, C. R. 1908 A, 150.

Fowler, H. W. 1911 A, 141.
 Jordan, D. S. 1923 A, 96.
 Reynolds, S. H. 1897 A, 106.
 Zittel and Koken 1911 A, 72 ("ichthyodory-
 lithen").
 Zittel and Schlosser 1923 A, 78.
 Zittel and Woodward 1902 A, 48.

ACONDYLACANTHUS St. John and Worth. Type *A. gracilis* St. John and Worth.

Hay, O. P. 1902 A, 329.
 Hussakof, L. 1908 A, 43.
 Jordan, D. S. 1920 C, 425.
 1923 A, 96, 106.

Acondylacanthus æquicostatus St. John and Worth.

Hay, O. P. 1902 A, 329.
 Hussakof and Bryant 1919 A, 156.
 Mississippian (Keokuk); Illinois.

Acondylacanthus gracilis St. John and Worth.

Hay, O. P. 1902 A, 329.
 Mississippian (Kinderhook); Iowa.

Acondylacanthus? mudgianus St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Kansas.

Acondylacanthus nuperus St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Illinois.

Acondylacanthus rectus St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Illinois.

AMACANTHUS St. John and Worth. Type *Homocanthus gibbosus* Newb. and Worth.

Hay, O. P. 1902 A, 329.
 Jordan, D. S. 1923 A, 96.

Amacanthus gibbosus (Newb. and Worth.).

Hay, O. P. 1902 A, 329.
 Mississippian (St. Louis); Missouri, Illinois.

ANODONTACANTHUS Davis. Type *A. acutus* Davis, here chosen.

Davis, J. D. 1881 B, 427.
 Case, E. C. 1915 A, 124.
 Hussakof, L. 1911 A, 162.
 Hussakof and Bryant 1919 A, 157.
 Jordan, D. S. 1920 C, 415 (Syn. of *Oracanthus*).
 1923 A, 92.
 Traquair, R. H. 1888 A, 101.
 Woodward, A. S. 1889 D, 2 (Syn. *Pleuracanthus*).

Anodontacanthus americanus Hussakof.

Hussakof, L. 1911 A, 162, pl. xxvi, fig. 5.
 Case, E. C. 1915 A, 96.
 Permian (Wichita, Clear Fork); Texas.

Anodontacanthus pusillus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 15, 156, pl. xlv, fig. 2.
 Upper Devonian (Genesee); New York.

APATEACANTHUS Woodward. Type *A. vetustus* (Clarke).

Hay, O. P. 1902 A, 331.
 Eastman, C. R. 1907 B, 80.
 Jordan, D. S. 1923 A, 107.
 Lydekker, R. 1914 A, 652.

Apateacanthus vetustus (Clarke, J. M.).

Hay, O. P. 1902 A, 331.
 Clarke and Ruedemann 1903 A, 768 (*Pristacanthus*).
 Eastman, C. R. 1907 B, 17, 81, 225, pl. iii, fig. 5.
 Merrill, G. P. 1907 A, 17 (*Pristacanthus*).
 Upper Devonian (Portage); New York.

ASTEROPTYCHIUS M'Coy. Type *A. ornatus* M'Coy.

Hay, O. P. 1902 A, 330.
 Barkas, W. J. 1874 D, 544.
 Bronn, H. G. 1849 A, 653.
 Jordan, D. S. 1919 B, 239.

Asteroptychius elegans Newb.

Hay, O. P. 1902 A, 330.
 Hussakof, L. 1908 A, 43.
 Mississippian (Waverly); Michigan.

Asteroptychius bellulus St. John and Worth.

Asteroptychius gracilis Newb.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Illinois, Iowa.

Hay, O. P. 1902 A, 330.
 Hussakof, L. 1908 A, 43, fig. 17.
 Mississippian (St. Louis); Illinois.

- Asteroptychius keokuk** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Keokuk); Illinois.
- Asteroptychius sancti-ludovici** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (St. Louis); Illinois, Missouri.
- Asteroptychius tenellus** St. John and Worth.
Hay, O. P. 1902 A, 330.
Pennsylvanian; Kansas.
- ATOPACANTHUS** Hussakof and Bryant. Type *A. dentatus* Hussakof and Bryant.
Hussakof and Bryant 1919 A, 157.
Jordan, D. S. 1923 A, 97.
- Atopacanthus dentatus** Hussakof and Bryant.
Hussakof and Bryant 1919 A, 19, 158, text-fig. 54a.
Upper Devonian (Portage); New York.
- BATACANTHUS** St. John and Worth. Type *B. baculiformis* St. John and Worth.
Hay, O. P. 1902 A, 334.
Eastman, C. R. 1902 B, 87.
1903 B, 171.
1917 A, 257 (Syn. of *Physonemus*).
Jordan, D. S. 1923 A, 93, 106.
- Batacanthus baculiformis** St. John and Worth.
Hay, O. P. 1902 A, 334.
Eastman, C. R. 1917 A, 263 (*Physonemus*?).
Mississippian (Keokuk); Iowa, Missouri, Illinois?.
- BYTHIACANTHUS** St. John and Worth.
Hay, O. P. 1902 A, 331.
Jordan, D. S. 1923 A, 96.
- Bythiacanthus? siderius** (Leidy).
Hay, O. P. 1902 A, 331.
Cope, E. D. 1871 R, 440 (*Asterocanthus iderius*).
Mississippian (St. Louis); Tennessee, New Jersey?
- COSMACANTHUS** Agassiz. Type *C. malcolmsoni* Agassiz.
Hay, O. P. 1902 A, 330.
Arlt, T. 1923 A, 487.
Barkas, W. J. 1874 D, 545.
Bronn, H. G. 1848 A, 341.
1849 A, 653.
Evans, H. M. 1904 A, 400.
Jordan, D. S. 1919 C, 225.
1923 A, 96.
Jordan and Hannibal 1923 A, 30.
- Cosmacanthus bullatus** (St. John and Worth.).
Hay, O. P. 1902 A, 330.
Davidson, P. 1919 A, 435 (*Geisacanthus*).
Mississippian (Chester); Illinois.
- Asteroptychius? tenuis** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Chester); Illinois.
- Asteroptychius triangularis** Newb. and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Burlington); Iowa.
- Asteroptychius vetustus** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Kinderhook); Iowa.
- Atopacanthus peculiaris** (Hussakof).
Hussakof, L. 1913 A, 247, pl. xlvii, figs. 4-6: text-fig. 2 (*Apateacanthus*).
Hussakof and Bryant 1919 A, 158.
Middle Devonian (Onondaga); New York.
- Batacanthus gigas** Branson.
Branson, E. B. 1916 A, 656, pl. iv, figs. 3-6; text-fig. 4.
Pennsylvanian (Embar); Wyoming.
- Batacanthus? necis** St. John and Worth.
Hay, O. P. 1902 A, 334.
Eastman, C. R. 1917 A, 263 (*Physonemus*?).
Mississippian (Keokuk); Iowa.
- Batacanthus stellatus** (Newb. and Worth.).
Hay, O. P. 1902 A, 334.
Mississippian (Keokuk); Illinois, Missouri.
- Bythiacanthus vanhornei** St. J. and Worth.
Hay, O. P. 1902 A, 331.
Mississippian (St. Louis); Illinois.
- Bythiacanthus sp. indet.**
Cope, E. D. 1871 R, 440 ("Asterocanthus").
New Jersey.
- Cosmacanthus elegans** Evans.
Evans, H. M. 1904 A, 398, pl. xlvii.
Davidson, P. 1919 A, 434.
Eastman, C. R. 1905 A, 66 ("Asteracanthus").
Lower Triassic; Idaho.
- Cosmacanthus humboldtensis** Davidson.
Davidson, P. 1919 A, 433, figs. 1, 2.
Jordan and Hannibal 1923 A, 32, 61 (*C. humboldtensis*).
Middle Triassic; Nevada.
- Cosmacanthus stellatus** (St. John and Worth.).
Hay, O. P. 1902 A, 330.
Evans, H. M. 1904 A, 400.
Mississippian (St. Louis); Missouri.

CTENACANTHUS Agassiz. Type *C. major* Agassiz.

- Hay, O. P. 1902 A, 326 (*Ctenacanthus*); 329 (*Eunemacanthus*).
 Agassiz, L. 1835 B, 342.
 1839 A, 597, pl. ii, fig. 10.
 1844 C, 268.
 Arltdt, T. 1907 D, 339.
 1923 A, 487.
 Barkas, W. J. 1874 B, 168.
 1874 D, 545.
 Bronn, H. G. 1848 A, 355.
 1849 A, 649.
 Case, E. C. 1915 A, 124.
 Claypole, E. W. 1903 A, 345.
 Dean, B. 1902 A, 768.
 1909 C, 229, 249, fig. 28 (*Ctenacanthus*,
 Ctenacanthidæ).
 Eastman, C. R. 1901 A, 795.
 1907 B, 75.
 1908 A, 152.
 1917 A, 261.
 Egerton, P. G. 1853 C, 281, pl. xii.
 Heilprin, A. 1887 A, 152, 300.
 Hussakof, L. 1908 A, 43.
 1911 A, 161.
 Jordan, D. S. 1923 A, 95, 106.
 Mantell, G. A. 1844 A, 611.
 Miller, A. M. 1916 A, 72.
 Moodie, R. L. 1926 A, 93, pl. vii.
 Schlosser, M. 1917 A, 133.
 Thomson, J. 1872 A, 66.
 Trouessart, E. 1898 B, 7.
 Twenhofel and Dunbar 1914 A, 160.
 Woodward, A. S. 1915 B, lxix.
 1921 B, 32, fig. 2.
 1924 A, 112.
 Zittel and Koken 1911 A, 53.
 Zittel and Schlosser 1923 A, 59, fig. 94.

***Ctenacanthus acutus* Eastman.**

- Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Merrill, G. P. 1907 A, 8.
 Mississippian (Keokuk); Iowa.

***Ctenacanthus amblyxiphias* Cope.**

- Hay, O. P. 1902 A, 327.
 Beede, J. W. 1907 A, 120.
 Branson, E. B. 1916 A, 654, pl. ii, fig. 25;
 text-fig. 5.
 Case, E. C. 1915 A, 96.
 Eastman, C. R. 1903 B, 186, pl. ii, figs. 22, 23.
 Hussakof, L. 1908 A, 44.
 1911 A, 161, pl. xxx, fig. 6.
 Woodruff, E. G. 1906 A, 290, pl. xviii, fig. 5.
 Pennsylvanian (Atchison) Nebraska: (Em-
 bar); Wyoming: Permian (Wichita, Clear
 Fork); Texas.

***Ctenacanthus angulatus* Newb. and Worth.**

- Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (Chester); Illinois.

***Ctenacanthus angustus* Newb.**

- Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1907 B, 18.
 Hussakof, L. 1908 A, 44, fig. 19.
 Upper Devonian (Berea); Ohio.

***Ctenacanthus bellus* Branson.**

- Branson, E. B. 1906 A, 1393, pl. xlii, figs. 19-21.
 Mississippian (Salem); Indiana.

***Ctenacanthus brevis*.**

- Eastman, C. R. 1902 B, 77. (No description.)
 Mississippian (Kinderhook); Iowa.

***Ctenacanthus browni* Branson.**

- Branson, E. B. 1916 A, 653, pl. iv, fig. 7; text-
 fig. 6.
 Pennsylvanian (Embar); Wyoming.

***Ctenacanthus? burlingtonensis* St. John and Worth.**

- Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92 (This genus?).
 1917 A, 262 (This genus?).
 Mississippian (Burlington): Iowa, Illinois.

***Ctenacanthus buttersi* St. John and Worth.**

- Hay, O. P. 1902 A, 327.
 Pennsylvanian; Illinois.

***Ctenacanthus cannaliratus* St. John and Worth.**

- Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (Chester); Illinois.

***Ctenacanthus chemungensis* Claypole.**

- Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1907 B, 21, 77, pl. vii, fig. 3.
 1908 A, 154, 287.
 Upper Devonian (Chemung); Pennsylvania,
 New York.

***Ctenacanthus clarkii* Newb.**

- Hay, O. P. 1902 A, 327.
 Claypole, E. W. 1903 A, 319 (*C. clarki*).
 Dean, B. 1909 C, 250, figs. 42-45 (*C. clarki*).
 Eastman, C. R. 1902 B, 77 (*C. clarki*).
 1907 B, 18 (*C. clarki*).
 1908 A, 283 (*C. clarki*).
 Hussakof, L. 1908 A, 45, fig. 19.
 Upper Devonian (Cleveland); Ohio.

***Ctenacanthus compressus* Newb.**

- Hay, O. P. 1902 A, 327.
 Claypole, E. W. 1903 A, 319.
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Hussakof, L. 1908 A, 45.
 Upper Devonian (Cleveland); Ohio.

- Ctenacanthus costatus** Newb. and Worth.
 Hay, O. P. 1902 A, 329 (Eunemacanthus).
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Missouri.
- Ctenacanthus coxianus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 87, 91.
 1917 A, 262.
 Mississippian (Kinderhook and Keokuk); Iowa.
- Ctenacanthus cylindricus** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Hussakof, L. 1908 A, 45.
 Newberry, J. S. 1889 A, 202, pl. xxvi, fig. 1.
 Mississippian (Keokuk); Kentucky.
- Ctenacanthus decussatus** Eastman.
 Eastman, C. R. 1902 B, 84, 91, pl. vi, fig. 2; text-fig. 11.
 Eastman, C. R. 1917 A, 261, 262.
 Merrill, G. P. 1907 A, 8.
 Mississippian (Kinderhook); Keokuk, Iowa.
- Ctenacanthus deflexus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 77, 83, 92.
 1917 A, 262.
 Mississippian (St. Louis); Illinois.
- Ctenacanthus depressus** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 91.
 1917 A, 262.
 Mississippian (Kinderhook); Iowa.
- Ctenacanthus elegans** Tuomey.
 Hay, O. P. 1902 A, 327.
 Mississippian; Alabama.
- Ctenacanthus excavatus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (Keokuk); Illinois, Missouri.
- Ctenacanthus? fallax** Woodward.
 Hay, O. P. 1902 A, 327.
 Mississippian; —.
- Ctenacanthus formosus** Newb.
 Hay, O. P. 1902 A, 327.
 Newberry, J. S. 1874 G, 94, 98.
 1874 H, 212.
- Read, M. C. 1873 A, 504 (Ctenocanthus formosa).
 Rogers, A. F. 1924 A, 546.
 Mississippian (Waverly); Ohio, Kentucky.
- Ctenacanthus furcicaratus** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 87.
 Newberry, J. S. 1874 G, 94.
 Mississippian (Waverly); Kentucky.
- Ctenacanthus gemmatus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Illinois.
- Ctenacanthus gracillimus** Newb. and Worth.
 Hay, O. P. 1902 A, 329 (Acondylacanthus).
 Eastman, C. R. 1902 B, 85, 86, fig. 12.
 1917 A, 261, pl. v, fig. 4; pl. vii, fig. 7.
 Hussakof, L. 1908 A, 43 (Acondylacanthus).
 Strong, E. A. 1872 A, 2.
 Mississippian (St. Louis); Missouri, Michigan, Illinois, Indiana.
- Ctenacanthus gradocostus** St. John and Worth.
 Hay, O. P. 1902 A, 327 (C. gradocostatus, *errore*).
 Eastman, C. R. 1902 B, 92.
 1917 A, 262 (C. gradocostatus, *errore*).
 Mississippian (Burlington); Illinois, Iowa.
- Ctenacanthus gurleyi** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Indiana.
- Ctenacanthus harrisoni** St. John and Worth.
 Hay, O. P. 1902 A, 323.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Illinois.
- Ctenacanthus keokuk** St. John and Worth.
 Hay, O. P. 1902 A, 328.
 Branson, E. B. 1906 A, 1393.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (Keokuk); Illinois, Missouri.
- Ctenacanthus littoni** Newb.
 Hay, O. P. 1902 A, 328.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Hussakof, L. 1908 A, 45.
 Mississippian (St. Louis); Missouri.

Ctenacanthus longinodosus Eastman.

Eastman, C. R. 1902 B, 78, 91, pl. v, fig. 2; text-fig. 8.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 8.

Mississippian (Kinderhook); Iowa.

Ctenacanthus lucasi Eastman.

Eastman, C. R. 1902 B, 80, 91, pl. vi, fig. 1; text-fig. 9.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 8.

Mississippian (Kinderhook); Iowa.

Ctenacanthus marshi Newb.

Newberry, J. S. 1873 A, 326, pl. xxxvi, figs. 3, 3b.

Hay, O. P. 1902 A, 328.

Stevenson, J. J. 1907 A, 168 (*Ctenobranchus*).

Pennsylvanian; Illinois.

Ctenacanthus mayi Newb. and Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 91.

Mississippian (Burlington); Iowa.

Ctenacanthus nodocostatus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 159, pl. li, fig. 1.
Devonian (Hamilton, Catskill); New York, Pennsylvania.

Ctenacanthus obscuracostatus Branson.

Branson, E. B. 1916 A, 654, pl. iv, fig. 2; text-figs. 2, 3.

Pennsylvanian (Embar); Wyoming.

Ctenacanthus pellensis St. John and Worth.

Hay, O. P. 1902 A, 328.

Branson, E. B. 1906 A, 1393, pl. xli, fig. 25
(This species?).

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (St. Louis); Iowa: (Salem); Indiana.

Ctenacanthus pugiunculus St. John and Worth.

Hay, O. P. 1902 A, 328.

Mississippian (St. Louis); Missouri, Illinois.

Ctenacanthus randalli Newb.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1907 B, 21, 77.

1908 A, 154, 287.

Hussakof, L. 1908 A, 46, fig. 20.

Upper Devonian (Chemung); Pennsylvania.

Ctenacanthus sculptus St. John and Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (Kinderhook); Iowa.

Ctenacanthus semicostatus (St. John and Worth.).

Hay, O. P. 1902 A, 328 (*Anaclitacanthus*).

Eastman, C. R. 1902 B, 89, 92.

1917 A, 262.

Mississippian (Burlington, Kinderhook); Iowa.

Ctenacanthus similis St. John and Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (Chester); Illinois.

Ctenacanthus solidus Eastman.

Eastman, C. R. 1902 B, 77, 83, 87, 90, 92, pl. vii, fig. 3; text-fig. 13.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 8, 9.

Mississippian (Kinderhook); Iowa, Illinois.

Ctenacanthus speciosus St. John and Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 89.

Mississippian (Kinderhook); Iowa.

Ctenacanthus spectabilis St. John and Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 77, 83, 87, 90, 92, pl. v, fig. 1.

1917 A, 261, 262.

Merrill, G. P. 1907 A, 9.

Mississippian (Kinderhook); Iowa, Illinois.

Ctenacanthus triangularis Newb.

Hay, O. P. 1902 A, 328.

Carll, John F. 1880 A, 33.

Newberry, J. S. 1874 G, 90, 98.

Mississippian (Waverly); Pennsylvania.

Ctenacanthus varians St. John and Worth.

St. John and Worthen 1875 A, 422, pl. xiv, fig. 2.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 77, 83, 88, 89, 91, 92.

1917 A, 262.

Hay, O. P. 1909 C, 51, pl. xiii, figs. 4, 5.

Mississippian (Kinderhook); Iowa.

Ctenacanthus venustus Eastman.

Eastman, C. R. 1902 B, 81, 92, pl. iii, fig. 2; text-fig. 10.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 9.

Mississippian (Kinderhook); Iowa.

Ctenacanthus vetustus Newb.

Hay, O. P. 1902 A, 328.

Claypole, E. W. 1903 A, 318.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Hussakof, L. 1908 A, 46.
Newberry, J. S. 1874 G, 94.
1874 H, 215.

Upper Devonian (Cleveland); Ohio.

Ctenacanthus wrighti Newb.

Hay, O. P. 1902 A, 328.
Claypole, E. W. 1903 A, 319.
Eastman, C. R. 1902 B, 71.
1907 B, 14, 76.
1908 A, 153, 276.

Hussakof, L. 1908 A, 46.

Hussakof and Bryant 1919 A, 15, 17, 161, pl. lii, fig. 2.

Middle Devonian (Hamilton); Upper Devonian (Genesee); New York.

Ctenacanthus xiphias (St. John and Worth.).

Hay, O. P. 1902 A, 328.
Eastman, C. R. 1902 B, 77 (Aeondylacanthus); 92 (Ctenacanthus).
1917 A, 262.
Merrill, G. P. 1907 A, 9.
Trouessart, E. 1898 B, 7.
Mississippian (Keokuk); Iowa.

Ctenacanthus sp. indet.

Eastman, C. R. 1902 B, 83. Mississippian (Keokuk); Iowa.
Hussakof and Bryant 1919 A, 15, 161. Upper Devonian (Genesee); New York.
Twenhofel and Dunbar 1914 A, 160. Pennsylvanian; Kansas.

CYRTACANTHUS Newb. Type *C. dentatus* Newb.

Hay, O. P. 1902 A, 336.
Claypole, E. W. 1903 A, 345.
Eastman, C. R. 1908 A, 119.
1908 B, 193.
Hussakof and Bryant 1919 A, 163.
Jordan, D. S. 1919 B, 371 (Syn.? of *Erismacanthus*).
1923 A, 107.
Weller, S. 1902 A, 427.

Cyrtacanthus dentatus Newb.

Hay, O. P. 1902 A, 336.
Claypole, E. W. 1903 A, 318.
Eastman, C. R. 1907 B, 13.
1908 A, 149, 278.
Hussakof, L. 1908 A, 46.
Hussakof and Bryant 1919 A, 162, text-fig. 55 a (This species?).
Orton, E. 1878 A, 626.
Stauffer, C. R. 1909 A, 169.
Middle Devonian (Columbus and Delaware?); Ohio.

ECZEMATOLEPIS S. A. Miller. Type *Acantholepis pustulosus* (Newb.).

Hay, O. P. 1902 A, 332 (*Eczematolepis*, *Phlyctenacanthus*).
Arlt, T. 1907 D, 130, 185 (*Acantholepis*).
Claypole, E. W. 1903 A, 313 (*Acantholepis*).
Cleland, H. F. 1911 A, 152 (*Phlyctenacanthus*).
Dean, B. 1906 B, 136 (*Phlyctenacanthus*).
Eastman, C. R. 1903 B, 214 (*Phlyctenacanthus*).
1907 B, 79, 225 (*Acantholepis*); 80 (*Phlyctenacanthus*).
1908 A, 140 (*Acantholepis*); 141, 143 (*Phlyctenacanthus*).
1908 B, 78, 193 (*Acantholepis*).
Hussakof, L. 1908 C, 312 (*Acantholepis*).
Jordan, D. S. 1923 A, 97 (*Eczematolepis*, *Phlyctenacanthus*).
Teller, E. F. 1906 A, 162 (*Phlyctenacanthus*).
Weller, S. 1902 A, 427 (*Acantholepis*).

Eastman, C. R. 1907 B, 14, 15, 79, 225, pl. iii, fig. 1 (*Acantholepis*).
1908 A, 142, 277, pl. iii, fig. 5 (*Acantholepis*).
1908 B, 79, pl. iii, fig. 1 (*Acantholepis*).
Hussakof, L. 1908 A, 22, fig. 1.
Hussakof and Bryant 1919 A, 10, 13, 17, 101, pl. xxix, fig. 2, pl. xxx, fig. 1.
Newberry, J. S. 1874 H, 192 (*Acantholepis pustulosus*).
Orton, E. 1878 A, 626 (*Acantholepis pustulosus*).
Stauffer, C. R. 1909 A, 169 (*Acantholepis*).
Middle Devonian (Columbus, Delaware); Ohio: (Ulsterian); New York: (Erian); Wisconsin: Upper Devonian (Genesee); New York.

Eczematolepis fragilis (Newb.).

Hay, O. P. 1902 A, 332.
Claypole, E. W. 1896 B, 354 (*Acantholepis*).
1903 A, 321 (*Acantholepis*). 318 (*Oracanthus abbreviatus*, *O. fragilis*, *O. granulatus*).
Cleland, H. F. 1911 A, 152, pl. xlv, fig. 3 (*Acantholepis*).

Eczematolepis telleri Eastman.

Hay, O. P. 1902 A, 332 (*Phlyctenaspis*).
Cleland, H. F. 1911 A, 153, pls. li, lii, fig. 1 (*Phlyctenaspis*).
Eastman, C. R. 1907 B, 15, 80 (*Phlyctenaspis*).
1908 A, 143, 277 (*Phlyctenaspis*).
Hussakof and Bryant 1919 A, 102.
Sauvage, H. E. 1899 A, 6 (*Phlyctenaspis telleri*).
Teller, E. E. 1906 A, 162, pls. i-v (*Phlyctenaspis*).
1911 A, 271.
Middle Devonian (Hamilton); Wisconsin.

ERISMACANTHUS M'Coy. Type *E. jonesii* M'Coy.

- Hay, O. P. 1902 A, 335.
 Barkas, W. J. 1874 D, 546.
 Eastman, C. R. 1902 E, 849.
 1903 B, 211.
 1917 A, 265.
 Hussakof and Bryant 1919 A, 163.
 Jordan, D. S. 1923 A, 106.

Erismacanthus barbatus Eastman.

- Eastman, C. R.* 1903 B, 211, pl. v, fig. 47.
 1903 A, 149.
 Mississippian (Kinderhook); Iowa.

Erismacanthus formosus Eastman.

- Eastman, C. R.* 1902 E, 850, fig. 1.
 1903 B, 212, fig. 13.
 1917 A, 265.
 Mississippian (St. Louis); Missouri.

Erismacanthus maccoyanus St. John and Worth.

- Hay, O. P. 1902 A, 335.
 Davis, J. W. 1884 A, 617.
 Eastman, C. R. 1903 B, 211.
 1917 A, 265, pl. vii, figs. 2, 3.
 Mississippian (Kinderhook); Iowa: (St. Louis); Missouri.

EUCTENIUS Traquair. Type *E. unilateralis* (Barkas).

- Hay, O. P. 1902 A, 337.
 Jordan, D. S. 1923 A, 96, 107.

Euctenius sp. indet.

- Hay, O. P. 1902 A, 337. Pennsylvanian; Ohio.

EUNEMACANTHUS St. John and Worth. Type *E. costatus* (Newb. and Worth.).

- Hay, O. P. 1902 A, 329.
 Jordan, D. S. 1920 C, 425 (Syn. of *Ctenacanthus*).
 1923 A, 96.

Eunemacanthus costatus (Newb. and Worth.).

- Hay, O. P. 1902 A, 329.

- Eastman, C. R.* 1902 B, 77.
 Pennsylvanian (St. Louis); Illinois, Missouri.

Eunemacanthus keytei Branson.

- Branson, E. B.* 1916 A, 655, pl. iv, fig. 1; text-fig. 1.
 Pennsylvanian (Embar); Wyoming.

GAMPHACANTHUS S. A. Miller. Type *Heteracanthus politus* Newb.

- Hay, O. P. 1902 A, 332.
 Dean, B. 1906 B, 136 (*Heteracanthus*).
 Eastman, C. R. 1907 B, 82, 229 (*Heteracanthus*).
 1908 A, 138 (Syn. of *Heteracanthus*).
 1917 A, 244 (*Heteracanthus*).
 Hussakof and Bryant 1919 A, 163.
 Jordan, D. S. 1923 A, 93.
 Osburn, R. C. 1907 A, 432 (*Heteracanthus*).
 Zittel and Schlosser 1923 A, 78, fig. 134.

Gamphacanthus politus (Newb.).

- Hay, O. P. 1902 A, 332.
 Cleland, H. F. 1911 A, 153, pl. xlvii, figs. 1, 2 (*Heteracanthus*).
 Eastman, C. R. 1907 B, 15, 16, 82, 229 (*Heteracanthus*).
 1908 A, 138, 277, 281 (*Heteracanthus*).
 Hussakof, L. 1908 A, 47.
 Hussakof and Bryant 1919 A, 164.

- Norton, W. H. 1906 A, 356 (*Heteracanthus*).
 Teller, E. E. 1906 A, 164 (*Heteracanthus*).
 1911 A, 270.
 Middle Devonian (Hamilton, Cedar Valley); Iowa, Illinois, Wisconsin.

Gamphacanthus uddeni (Lindahl).

- Hay, O. P. 1902 A, 332.
 Anonymous, 1898 C, 85 (*Heteracanthus*).
 Cleland, H. F. 1911 A, 154 (*Heteracanthus*).
 Eastman, C. R. 1907 B, 15, 16, 83 (*Heteracanthus*).
 1908 A, 139, 277 (*Heteracanthus*).
 1917 A, 245, pl. i (*Heteracanthus*).
 Hussakof and Bryant 1919 A, 164, pl. lii, fig. 1.
 Udden, J. A. 1897 A, 95 (*Heteracanthus*).
 Middle Devonian (Cedar Valley); Iowa: (Hamilton); Wisconsin.

GAMPSACANTHUS St. John and Worth. Type *G. typus* St. John and Worth.

- Hay, O. P. 1902 A, 336.
 Eastman, C. R. 1902 E, 849.
 1917 A, 265.
 Jordan, D. S. 1923 A, 106.

Gampsacanthus? latus St. John and Worth.

- Hay, O. P. 1902 A, 336.
 Mississippian (Keokuk); Missouri.

Gampsacanthus squamosus St. John and Worth.

- Hay, O. P. 1902 A, 336.
 Mississippian (St. Louis); Illinois.

Gampsacanthus typus St. John and Worth.

- Hay, O. P. 1902 A, 336.
 Zittel and Woodward 1902 A, 49.
 Mississippian (St. Louis); Illinois, Missouri.

GLYMMATACANTHUS St. John and Worth. Type *G. irishii* St. J. and Worth.

Hay, O. P. 1902 A, 331.

Evans, H. M. 1904 A, 400.

Jordan, D. S. 1920 C, 425 (*Gymnatacanthus*).
1923 A, 96.**Glymmatacanthus irishii** St. John and Worth.

Hay, O. P. 1902 A, 331.

Mississippian (Kinderhook); Iowa.

Glymmatacanthus petrodoides St. John and Worth.

Hay, O. P. 1902 A, 331.

Mississippian (Chester); Illinois.

Glymmatacanthus rudis St. John and Worth.

Hay, O. P. 1902 A, 331.

Mississippian (Keokuk); Iowa.

HARPACANTHUS Traquair. Type *Tristychius fimbriatus* (Stock).

Hay, O. P. 1902 A, 336.

Bronn, H. G. 1849 A, 653 (*Tristychius*).

Eastman, C. R. 1908 A, 119, 150.

1917 A, 266.

Jordan, D. S. 1923 A, 106.

Traquair, R. H. 1893 E, 178.

1894 B, 372.

Woodward, A. S. 1924 A, 112 (*Tristychius*).Zittel and Koken 1911 A, 54 (*Tristychius*).Zittel and Schlosser 1923 A, 59, fig. 95 (*Tristychius*).**Harpacanthus fimbriatus** (Stock).

Hay, O. P. 1902 A, 336.

Hussakof, L. 1908 A, 48.

Mississippian (St. Louis); Illinois.

Harpacanthus procumbens Eastman.

Eastman, C. R. 1917 A, 266, pl. vii, fig. 1.

Mississippian (St. Louis); Missouri.

HOMACANTHUS Agassiz. Type *H. arcuatus* Agassiz.

Hay, O. P. 1902 A, 329.

Arlt, T. 1923 A, 487.

Barkas, W. J. 1874 D, 546.

Eastman, C. R. 1903 B, 217.

1907 B, 74.

1908 A, 151.

Jordan, D. S. 1923 A, 91.

Homacanthus acinaciformis Eastman.

Eastman, C. R. 1903 B, 218, pl. v, fig. 58.

Eastman, C. R. 1907 B, 21, 75, pl. i, fig. 16.

1908 A, 151, 287, pl. iii, fig. 10.

Upper Devonian (Chemung); Pennsylvania.

Homacanthus delicatulus Eastman.

Eastman, C. R. 1903 B, 218, pl. iii, fig. 28, pl. v, fig. 59.

Eastman, C. R. 1908 A, 152.

Mississippian (Kinderhook); Iowa.

Homacanthus gracilis Whiteaves.

Hay, O. P. 1902 A, 329.

Eastman, C. R. 1907 B, 13.

1908 A, 276.

Lambe, L. M. 1904 C, 33 ("acanthodian fish").

Whiteaves, J. F. 1907 B, 253 ("acanthodian?").

Lower Devonian; New Brunswick.

HOPLONCHUS J. W. Davis. Type *H. elegans* J. W. Davis.

Hay, O. P. 1902 A, 329.

Cushing, H. P. 1912 A, 581.

Jordan, D. S. 1923 A, 96.

Hoplonchus parvulus Newb.

Hay, O. P. 1902 A, 329.

Claypole, E. W. 1903 A, 318 (*Ctenacanthus*).

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Hussakof, L. 1908 A, 49.

Upper Devonian (Cleveland); Ohio.

LECRACANTHUS St. John and Worth. Type *L. unguiculus* St. John and Worth.

Hay, O. P. 1902 A, 336.

Eastman, C. R. 1902 E, 849.

1917 A, 265.

Jordan, D. S. 1923 A, 106.

Lecracanthus unguiculus St. John and Worth.

Hay, O. P. 1902 A, 336.

Mississippian (St. Louis); Missouri, Illinois.

LISTRACANTHUS Newb. and Worth. Type *L. hystrix* Newb. and Worth.

Hay, O. P. 1902 A, 336.

Barkas, W. J. 1874 D, 547.

Bolton, H. 1896 A, 424, fig.

Jordan, D. S. 1923 A, 107.

Woodward, A. S. 1903 A, 486.

Listracanthus hildrethi Newb.

Hay, O. P. 1902 A, 336.

Pennsylvanian; Ohio.

Listracanthus hystrix Newb. and Worth.

Hay, O. P. 1902 A, 336.

Brongniart, C. 1888 C, 47.

Savage, T. E. 1922 A, 238, 240.

Pennsylvanian; Ohio, Illinois, Missouri.

MACHÆRACANTHUS Newb. Type *M. peracutus* Newb.

- Hay, O. P. 1902 A, 331.
 Barkas, W. J. 1874 D, 547 (*Machæracanthus*).
 Claypole, E. W. 1903 A, 313.
 Eastman, C. R. 1899 A, 642.
 1902 B, 92.
 1902 G, 536.
 1907 B, 83, 193, 231.
 1908 A, 112, 113.
 Hussakof and Bryant 1919 A, 140, 143.
 Jordan, D. S. 1923 A, 91.
 Reis, O. M. 1894 A, 58, 60.
 Smith, B. 1910 A, 656; fig. 1.
 Traquair, R. H. 1893 E, 177.
 Weller, S. 1902 A, 427.
 Zittel and Koken. 1911 A, 72.

Machæracanthus longævus Eastman.

- Eastman, C. R.* 1907 B, 14, 85; pl. ii, fig. 8.
 Cleland, H. F. 1911 A, 154 (This species?).
Eastman, C. R. 1907 A, 114, 231, 278.
 Hussakof and Bryant 1919 A, 17, 166.
 Smith, B. 1910 A, 658.
 Middle Devonian (Hamilton); New York,
 Wisconsin?

Machæracanthus major Newb.

- Hay, O. P. 1902 A, 331.
 Claypole, E. W. 1903 A, 318, 345.
 Eastman, C. R. 1907 B, 14.
 1908 A, 278.
 Hussakof, L. 1908 A, 49.
 Hussakof and Bryant 10, 165, pl. liii, figs. 1, 2;
 text-fig. 56.
 Newberry, J. S. 1874 H, 192.
 Orton, E. 1878 A, 626.
 Smith, B. 1910 A, 658.
 Stauffer, C. R. 1909 A, 169.
 Zittel and Woodward 1902 A, 49, fig. 97.
 Middle Devonian (Columbus and Delaware),
 Ohio: (Hamilton); New York: Upper Devonian
 (Genesee); New York.

Machæracanthus peracutus Newb.

- Hay, O. P. 1902 A, 332.
 Clarke and Luther 1904 A, 42.

MARRACANTHUS St. John and Worth.

- Hay, O. P. 1902 A, 329.
 Jordan, D. S. 1923 A, 96.

- Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1907 B, 14, 84.
 1908 A, 114, 277.
 Hussakof, L. 1908 A, 49.
 Hussakof and Bryant 1919 A, 17, 167, pl. liii,
 fig. 3.
 Lambe, L. M. 1904 C, 16, 34, 42.
 Newberry, J. S. 1874 H, 192.
 Orton, E. 1878 A, 626.
 Rogers, A. F. 1924 A, 546.
 Smith, B. 1910 A, 658.
 Stauffer, C. R. 1909 A, 169.
 Whiteaves, J. F. 1877 A, 319.
 Lower Devonian; Quebec: Middle Devonian;
 Ontario: (Columbus and Delaware); Ohio:
 (Onondaga), New York.

Machæracanthus sulcatus Newb.

- Hay, O. P. 1902 A, 332.
 Clarke and Luther 1904 A, 42.
 Clarke and Ruedemann 1903 A, 767.
 Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1907 B, 13, 14, 84, 191, 231; pl.
 iii, fig. 6.
 1908 A, 276, 278.
 Lambe, L. M. 1904 C, 16, 34, 42.
 Lankester, E. R. 1870 D, 223.
 Newberry, J. S. 1874 H, 192.
 Orton, E. 1878 A, 626.
 Smith, B. 1910 A, 658.
 Stauffer, C. R. 1909 A, 169.
 Van Ingen and Clark 1903 A, 1204, 1208.
 Whiteaves, J. F. 1877 A, 319.
 Lower Devonian; Quebec, Ontario: Middle
 Devonian (Columbus and Delaware); Ohio and
 Canada: (Onondaga and Oriskany); New York.

Machæracanthus sp. indet.

- Eastman, C. R. 1899 A, 642. Middle Devonian
 (Hamilton); New York.
 1907 B, 15 (=M. longævus?). Middle De-
 vonian (Hamilton); Wisconsin.
 Hussakof and Bryant 1919 A, 168, pl. liii, fig. 4.
 Upper Devonian (Genesee); New York.

MARRACANTHUS St. John and Worth. Type *M. rectus* (Newb. and Worth).

- Marracanthus rectus** (Newb. and
 Worth.).
 Hay, O. P. 1902 A, 329.
 Mississippian (St. Louis); Missouri.

ŒSTOPHORUS S. A. Miller. Type *Sphenophorus lilleyi* Newb.

- Hay, O. P. 1902 A, 337.
 Jordan, D. S. 1923 A, 96.
 Zittel and Schlosser 1923 A, 31 (*Sphenophorus*).
Œstophorus lilleyi (Newb.).
 Hay, O. P. 1908 A, 337.
 Claypole, E. W. 1903 A, 320 (*Sphenophorus*
 lilleyi).
 Eastman, C. R. 1907 B, 21 (*Sphenophorus*).
 1908 A, 207, 288 (*Sphenophorus*).
 1908 B, 157 (*Sphenophorus*).

- Hussakof, L. 1908 A, 23.
 Hussakof and Bryant 1919 A, 13, 17, 105, pl.
 xxxiii, fig. 1 (This species?).
 Middle Devonian (Hamilton); Wisconsin:
 Upper Devonian (Chemung); Pennsylvania:
 (Genesee); New York.

Œstophorus sp. indet.

- Hay, O. P. 1902 A, 338.
 Cleland, H. F. 1911 A, 157. Devonian (Hamil-
 ton); Wisconsin.

- Eastman, C. R. 1907 B, 16 (Sphenophorus). Devonian (Hamilton); Wisconsin.
1908 A, 279 (Sphenophorus).
- Teller, E. E. 1911 A, 271 (Sphenophorus). Devonian (Hamilton); Wisconsin.

ONCHUS Agassiz. Type *O. murchisoni* Agassiz.

- Hay, O. P. 1902 A, 326.
Agassiz, L. 1835 B, 342.
1839 A, 596, pl. ii, figs. 10, 11.
1839 B, 607, pl. iv, figs. 9-11, 57-59.
1844 C, 268.
Arlt, T. 1923 A, 487.
Barkas, W. J. 1874 D, 547.
Barrell, J. 1915 B, 394, 404.
Bronn, H. G. 1848 B, 843.
1849 A, 652.
Claypole, E. W. 1885 E, 89.
1900 A, 248.
1903 A, 345.
Eastman, C. R. 1907 B, 73.
1908 A, 150.
Hay, O. P. 1901 B, 63.
Heilprin, A. 1887 A, 142, 300.
Jordan, D. S. 1923 A, 92 (To Onchidæ).
Kemna, A. 1903 A, 343.
Lankester, E. R. 1864 C, 446.
Mantell, G. A. 1844 A, 611.
M'Coy, F. 1853 C, 12.
Moodie, R. L. 1923 B, 297.
Murchison, R. I. 1853 A, 16.
1854 A, 238, pl. xxxv, figs. 15-17.
Pompeckj, J. F. 1913 A, 1120.
Schlosser, M. 1917 A, 132.
Stromer, E. 1920 A, 11.
Traquair, R. H. 1899 C, 598.
1900 C, 503.
Woodward, A. S. 1920 D, 27.
Zittel and Koken 1911 A, 72.
Zittel and Schlosser 1923 A, 48, 78, figs. 62, 133.
- Onchus clintoni** Claypole.
Hay, O. P. 1902 A, 326.
Claypole, E. W. 1885 E, 90.
- Dana, J. D. 1896 A, 550.
Eastman, C. R. 1907 B, 12.
Twenhofel, W. H. 1913 A, 303.
Middle Silurian (Clinton); Pennsylvania.
- Onchus murchisoni** Agassiz.
Agassiz, L. 1843 B (1837), iii, 6, pl. i, fig. 1.
1839 A, 607? pl. iv, figs. 9, 11.
Ami, H. M. 1901 B, 309, 312.
M'Coy, F. 1853 C, 13.
Murchison, R. I. 1853 A, 16.
Woodward, A. S. 1891 A, 94.
1901 C, 312.
1902 D, 203.
Lower Devonian (Knorydort); Nova Scotia.
- Onchus pennsylvanicus** Claypole.
Hay, O. P. 1902 A, 326.
Claypole, E. W. 1885 E, 90.
Eastman, C. R. 1907 B, 12.
Upper Silurian (Salina); Pennsylvania.
- Onchus rectus** Eastman.
Hay, O. P. 1902 A, 326.
Clark and Ruedemann 1903 A, 767.
Eastman, C. R. 1907 B, 22, 74; fig. 16.
1908 A, 150, 289, pl. iii, fig. 9.
Hussakof and Bryant 1919 A, 168.
Upper Devonian (Chemung, Catskill); New York.
- Onchus sp. indet.**
Eastman, C. R. 1907 B, 12. Silurian (Niagara); Maryland.
1908 A, 276. Middle Devonian; Quebec.

PHYSONEMUS M'Coy. Type *P. arcuatus* M'Coy.

- Hay, O. P. 1902 A, 333 (Physonemus, Xystracanthus).
Barkas, W. J. 1874 D, 546 (Drepanacanthus); 547 (Physonemus); 548 (Xystracanthus).
Bronn, H. G. 1849 A, 653.
Eastman, C. R. 1902 B, 86, 87; text-fig. 12.
1902 E, 849.
1903 B, 171, 183, 205 (Physonemus, Xystracanthus).
1917 A, 257, 262 (Xystracanthus, Drepanacanthus as syns.).
Hussakof and Bryant 1919 A, 164.
Jordan, D. S. 1919 B, 407.
1923 A, 95, 106 (Physonemus); 106 (Xystracanthus).
Zittel and Koken 1911 A, 63 (Xystracanthus).
- Physonemus acinaciformis** (St. John and Worth.).
Hay, O. P. 1902 A, 333 (Xystracanthus).
Eastman, C. R. 1903 B, 206, 210.
1917 A, 263.
Pennsylvanian: Illinois.
- Physonemus anceps** (Newb. and Worth.).
Hay, O. P. 1902 A, 334 (Xystracanthus).
Eastman, C. R. 1903 B, 206 (Drepanacanthus); 210 (Physonemus).
1917 A, 263.
Pennsylvanian; Illinois.
- Physonemus arcuatus** M'Coy.
M'Coy, F. 1848 A, 117.
Davis, J. W. 1883 A, 367, pl. xlvii, fig. 8.
Eastman, C. R. 1903 B, 208, 210, fig. 12.
1917 A, 263, 264, pl. v, figs. 1, 2.
M'Coy, F. 1855 A, 638, pl. 31, fig. 20.
Woodward, A. S. 1891 A, 130.
This species is not to be confounded with Leidy's *Xystracanthus arcuatus*, now renamed *Physonemus asper* Eastman.
Lower Carboniferous; England, Ireland; Mississippian (St. Louis); Missouri, Illinois, Indiana.

Physonemus asper Eastman.

Eastman, C. R. 1903 B, 183, 210 (To replace *Xystracanthus arcuatus* Leidy, preoccupied), 1917 A, 263.

Hay, O. P. 1902 A, 334 (*Xystracanthus arcuatus*).
Pennsylvanian; Kansas, Illinois.

Physonemus carinatus St. John and Worth.

Hay, O. P. 1902 A, 333.
Mississippian (Kinderhook); Illinois.

Physonemus chesterensis St. John and Worth.

Hay, O. P. 1902 A, 333.
Mississippian (Chester); Illinois.

Physonemus falcatus St. John and Worth.

Hay, O. P. 1902 A, 333.
Mississippian (St. Louis); Missouri.

Physonemus gemmatus (Newb. and Worth.).

Hay, O. P. 1902 A, 334 (*Xystracanthus*).
Eastman, C. R. 1903 B, 203, 209, 210.
1917 A, 263, pls. iii, iv; pl. v, fig. 3.
Mississippian (Keokuk); Iowa.

Physonemus gigas Newb. and Worth.

Hay, O. P. 1902 A, 333.
Eastman, C. R. 1902 E, 850.
1903 B, 206, 210, 213.
1917 A, 263.
Mississippian (Burlington); Illinois.

Physonemus hamus-piscatorius Eastman.

Eastman, C. R. 1903 B, 207, 210, pl. v, figs. 45, 46.

Eastman, C. R. 1908 A, 149.
1917 A, 263.

Mississippian (Kinderhook); Iowa.

Physonemus mirabilis (St. John and Worth.).

Hay, O. P. 1902 A, 334 (*Xystracanthus*).
Eastman, C. R. 1917 A, 263.
Karpinsky, A. P. 1925 A, 135, fig. 15 (*Xystracanthus*).
Pennsylvanian; Illinois.

Physonemus pandatus Eastman.

Eastman, C. R. 1903 B, 207, 210, pl. v, fig. 44.
Eastman, C. R. 1908 A, 149.
1917 A, 263.
Mississippian (Kinderhook); Iowa.

Physonemus parvulus St. John and Worth.

Hay, O. P. 1902 A, 333.
Mississippian (Keokuk); Missouri, Illinois.

Physonemus proclivus St. John and Worth.

Hay, O. P. 1902 A, 333.
Davis, J. W. 1884 A, 618.
Mississippian (Kinderhook); Iowa.

Physonemus reversus (St. John and Worth.).

Hay, O. P. 1902 A, 334 (*Xystracanthus*).
Eastman, C. R. 1903 B, 206 (*Drepanacanthus*).
Mississippian (St. Louis); Illinois, Missouri.

Physonemus stellatus Newb.

Hay, O. P. 1902 A, 333.
Eastman, C. R. 1903 B, 206, 209, 210.
1917 A, 263.
Hussakof, L. 1908 A, 49, fig. 21 (*Oracanthus*).
Mississippian (Keokuk); Illinois, Iowa: (St. Louis); Indiana.

PROSPIRAXIS Williams. Type *Spiraxis major* Newb.

Hay, O. P. 1902 A, 338.
Jordan, D. S. 1923 A, 96.

Prospiraxis major (Newb.).

Hay, O. P. 1902 A, 338.
Upper Devonian (Chemung); New York.

Prospiraxis randallii (Newb.).

Hay, O. P. 1902 A, 338.
Upper Devonian (Chemung); Pennsylvania.

STETHACANTHUS Newb. Type *S. altonensis* (St. John and Worth.).

Hay, O. P. 1902 A, 333.
Clark, W. 1898 A, 46.
Eastman, C. R. 1902 E, 850.
1903 B, 213.
1917 A, 263, 266.
Hussakof and Bryant 1919 A, 164.
Jordan, D. S. 1920 B, 447.
1923 A, 93, 106.

Stethacanthus altonensis (St. John and Worth.).

Hay, O. P. 1902 A, 333.
Eastman, C. R. 1903 B, 214.

Hussakof, L. 1908 A, 50.
Mississippian (St. Louis); Illinois, Missouri.

Stethacanthus compressus Newb.

Hay, O. P. 1902 A, 333.
Mississippian (Burlington); Iowa.

Stethacanthus depressus (St. John and Worth.).

Hay, O. P. 1902 A, 333 (*Physonemus*).
Eastman, C. R. 1903 B, 216, fig. 15 (Incorrectly referred, *fide* *Hussakof and Bryant*).

Hussakof, L. 1913 A, 249.

Hussakof and Bryant 1919 A, 170, pl. liv, fig. 3.
Upper Devonian (Catskill); Pennsylvania:
Mississippian (Kinderhook); Iowa: (Waverly);
Michigan.

Stethacanthus erectus Eastman.

Eastman, C. R. 1903 B, 217, pl. iii, fig. 29.
Hussakof, L. 1913 A, 249.
Mississippian (Kinderhook); Iowa.

Stethacanthus exilis Hussakof.

Hussakof, L. 1913 A, 249, pl. xlvii, fig. 3.
Eastman, C. R. 1917 A, 266.
Mississippian (Waverly); Kentucky.

Stethacanthus humilis Hussakof.

Hussakof, L. 1913 A, 248, pl. xlvii, figs. 1, 2.
Eastman, C. R. 1903 B, 217, pl. iii, fig. 29 (S. depressus).
1917 A, 266.
Hussakof, L. 1913 A, 249, foot-note.
Mississippian (Waverly); Kentucky.

Stethacanthus præcursor Hussakof and Bryant.

Hussakof and Bryant 1919 A, 15, 169, pl. liv, figs. 1, 2.
Upper Devonian (Genesee); New York.

Stethacanthus productus Newb.

Hay, O. P. 1902 A, 333 (S. productus, S. compressus).
Eastman, C. R. 1903 B, 215, fig. 14 (S. compressus a syn.).
1917 A, 266.
Mississippian (Burlington, Keokuk); Iowa.

Stethacanthus tumidus Newb.

Hay, O. P. 1902 A, 333.
Hussakof, L. 1908 A, 50.
Mississippian (Cuyahoga); Ohio.

Stethacanthus sp. indet.

Eastman, C. R. 1899 A, 642. Mississippian (Keokuk); Iowa.

Class OSTEICHTHYES.

Unless otherwise indicated the writers, as cited, include this group under the term *Pisces*.

- Hay, O. P. 1902 A, 338.
Abel, O. 1912 F, 300, 672.
1914 C, 344 ("fische").
1920 A, 333 (Teleostomi).
1921 A, 144, 207, 247 ("fische").
1922 F.
Adams, C. C. 1902 A, 116 ("fish").
Adams, L. A. 1919 A, 62.
Adloff, P. 1904 B, 54 ("fische").
1907 A, 532 ("fische").
Agassiz, A. 1840 C, 97 ("poissons").
1859 A, 108 ("fishes").
1877 A, 117 ("bony fishes").
Agassiz, L. 1836 B, 24 ("poissons").
1840 A, 58 ("poissons").
1840 B, 62 ("poissons").
1844 C, 251 ("poissons").
1844 D, 132 ("fishes").
1858 A, 9 ("fishes").
Ahlborn, F. 1896 B, 1 ("fische").
Aichel, O. 1919 A ("fische").
Allis, E. P. 1919 B, 73.
Anonymous, 1821 A, 272 ("fische").
Alessandrini, A. 1849 A, 371.
Alix, E. 1874 B, 20 ("poissons osseux").
Allen, J. A. 1905 A, 662 ("fishes").
Allis, E. P. 1898 A, 457 ("fishes").
1905 A, 401 ("fishes").
1918 A, 241 ("fishes").
1919 A, 350 ("fishes").
Anthony, R. 1912 A ("poissons").
Arlt, T. 1907 D, 674.
Baraldi, G. 1877 A, *passim* ("pesci").
Bardeleben, K. 1901 A.
1907 A, 35 ("fische").
1907 B, 154 ("fische").
Barkas, W. J. 1874 D, 542 ("fishes").
Barrell, J. 1915 B, 392 ("fishes").
Baur, G. 1885 L ("vertebrates" in part).
Baur, G. 1893 D, 116 ("fische").
1896 F ("osseous fishes").
Bender, O. 1907 A, 39 ("fische").
Berry, E. W. 1925 A, 355 ("fishes").
Beyer, H. 1909 A, 32 ("fische").
Bittner, F. 1912 A, 1 ("fische").
Blainville, H. M. D. 1817 A, 104 ("poissons").
Bojanus, L. H. 1818 A, 498 ("fische").
1818 B, 2095 ("fische").
1821 A, 1157 ("fische").
Bonaparte, C. L. 1831 A, 89 (Ossei).
1832 A, 319.
1833 B, 1197 (Ossei).
Born, G. 1827 A, 182 ("fische").
Boulenger, G. A. 1917 B, 327 ("poissons").
Brandt, J. F. 1865 A, 21.
Bronn, H. G. 1849 A, 780, seq.
Broom, R. 1908 E, 114 ("bony fishes").
Bruch, C. 1862 A, 78 ("fische").
Burckhardt, R. 1903 A, 78 ("fische").
1906 A, 156 ("fische").
Cahall, W. C. 1890 A, 232 ("fishes").
Carus, V. 1875 A, 486.
Carus and Engelmann 1861 A, 968-997, 1551-1562, 1669-1676, 1788.
Chaine, J. 1918 A, 733 ("poissons").
Chamberlin, T. C. 1900 A, 401.
Cleland, J. 1863 A, 119 ("fishes").
1863 B, 308.
1870 A, 120 ("fishes").
Cockerell, T. D. A. 1911 E, 209 ("fish").
1913 B, 119 ("fishes").
1916 B, 187 ("fish").
Collinge, W. E. 1894 A, 499 ("fishes").
1895 B, 274 ("fishes").
Connell, A. 1835 A, 300 ("fishes").
Cope, E. D. 1885 BB, 63.
1891 N, 7, 10.
Coulon, L. 1903 A, 99 ("poissons").
Coyle, R. F. 1909 A, 582 ("fishes").
Cunningham, J. T. 1912 A, 231-440 ("fishes").

- Cuvier, G. 1801 A, 25 ("poissons").
 1803 A, 166 ("poissons").
 1812 A, 123 ("poissons").
 1814 A, 73 ("poissons").
 1815 A, 102 ("poissons").
 Dahl, K. 1909 A, 758 ("fish").
 Dana, J. D. 1863 A, 31 ("fishes").
 1863 C, 343 ("fishes").
 Darton, N. H. 1909 A, 567 ("fish").
 Davidoff, M. 1879 A, 450 ("fische").
 Dean, B. 1900 A, 22 ("fishes").
 1902 C, 702.
 1904 C, 437 ("fishes").
 1916 A ("fishes").
 Dean and Eastman. 1916 A.
 1917 A.
 Deninger, K. 1914 A, 183-214 ("fische").
 1915 A, 181-183 ("fische").
 Dendorf, T. 1907 A, 546 ("fische").
 Depéret, C. 1907 B ("poissons").
 Diener, C. 1909 A, 32 ("fische").
 Döderlein, L. 1902 A, 433 ("fische").
 Dohrn, A. 1884 A, 140 ("fische").
 Dollo, L. 1889 E, 146, 152 ("poissons").
 1893 D, 5 ("poissons").
 Dugès, A. 1905 A, 107 ("poissons").
 1905 B, 798 ("fishes").
 Dujardin, F. 1836 A, 319 ("poissons").
 Eastman, C. R. 1898 E, 177 ("fishes").
 1901 C, 327 ("fishes").
 1904 I, 648 ("fishes").
 1908 B, 23.
 1913 B, 677 ("fishes").
 1916 A, 655 ("fishes").
 Ebner, V. 1896 A, 123 ("fische").
 Eichwald, E. 1832 A, 858 ("fische").
 Eimer, G. H. T. 1901 A, 258 ("fische").
 Eisler, P. 1895 A, 17 ("fische").
 Erdl, M. 1843 A ("fische").
 Eschricht, D. F. 1851 A, 110 ("fische").
 Fiebiger, J. 1905 A, 140 ("fische").
 Filhol, H. 1899 A, 224 ("poissons").
 Forster, A. 1905 A, 89-138.
 Fraser, C. M. 1915 A, 113.
 Frass, E. 1905 B, 354 ("fische").
 Frassetto, F. 1915 A ("pesci").
 Friedmann, E. 1897 A, 546 ("knochenfische").
 Fryd, C. 1901 A, 7.
 Fuchs, H. 1907 C, 24 ("fische").
 Fulton, T. W. 1906 A, 48 ("fishes").
 Fürbringer, M. 1902 A ("fishche").
 Gaskell, W. H. 1905 A, 41 ("fishes").
 1908 A, 525 ("fishes").
 Gaupp, E. 1898 B, 826 ("fische").
 1899 A, 1004 ("fische").
 1906 A, 31 ("fische").
 1906 B ("fische").
 1911 C, 455 ("fische").
 Gegenbaur, C. 1866 A, 121 ("fische").
 1867 A, 55 ("fische").
 1867 B, 374 ("fische").
 1870 C, 398 ("fische").
 Geoffroy-St. Hilaire, E. F. 1807 A, 357 ("poissons").
 1807 B, 413 ("poissons").
 1807 C, 87 ("poissons").
 1807 E, 342 ("poissons").
 1817 A, 125 ("poissons").
 Geoffroy-St. Hilaire, E. F. 1817 B, 185 ("poissons").
 1822 A, 76 ("poissons").
 1822 B, 95 ("poissons").
 1824 B, 143 ("poissons").
 1824 C, 241 ("poissons").
 1824 D, 420 ("poissons").
 1825 A, 13 ("poissons").
 1832 A, 348 ("poissons").
 Gervais, P. 1859 A, 511 ("poissons").
 Gill, T. 1873 E, 435.
 1875 B, 251 ("teleosteous fishes").
 1885 B, 29 ("fishes").
 1896 A, 696.
 1898 A, 696.
 1903 A, 255 ("fishes").
 1903 B, 488 ("fishes").
 1905 A, 655.
 1907 A, 491.
 1909 A, 193 (Osteophora).
 Goette, A. 1901 A, 533 ("fische").
 Goodrich, E. S. 1906 A, 333 ("fish").
 1909 A, 210 (Osteichthyes).
 1910 A, 24 ("fish").
 1913 A, 80 ("fishes").
 1924 A, 935 (Osteichthyes).
 Goodsir, J. 1857 A.
 1857 B.
 Gregory, W. K. 1910 B, 509 ("fishes").
 1923 A, 238 (Osteichthyes).
 Gregory and Adams 1915 A, 763 (Osteichthyes).
 Gregory and Noble 1924 A, 436 ("fishes").
 Green, J. 1858 A, 362 ("fishes").
 Gulliver, G. 1896 A, 397 ("osseous fishes").
 Haller, G. 1924 A, 305 ("knochenfische").
 Hase, A. 1911 B.
 1913 A ("fische").
 Hasse, C. 1872 A, 417-488.
 1873 A, 584-610, pls. xxvii, xxviii ("fische").
 Hatschek, B. 1889 A, 82 ("fische").
 Hay, O. P. 1897 A, 131 ("fishes").
 1917 H, 383 ("fishes").
 Heilprin, A. 1887 A, 418 ("fishes").
 Hennig, E. 1920 B, 112.
 Henshaw, H. W. 1912 A, 318 ("fishes").
 Hertwig, O. 1892 A.
 Hilgard, T. C. 1857 A, 98 ("fishes").
 1859 A, 335 ("fishes").
 1860 A, 678 ("fishes").
 Hilzheimer, M. 1913 A, 468 ("fische").
 Hofer, B. 1890 A, 103 ("fische").
 Hollard, H. 1863 A, 38 ("poissons").
 1863 B, 633 ("poissons").
 1864 A, 5 ("poissons").
 1864 B, 241 ("poissons").
 1864 C, 359 ("poissons").
 Houssay, F. 1909 A, 617 ("poissons").
 1909 B, 943 ("poissons").
 1909 C, 1076 ("poissons").
 Howes, G. B. 1894 A, 78, 87 (Osteichthyes).
 Hubbs, C. L. 1919 A, 570.
 1919 B, 61 ("fishes").
 1926 A, 57 ("fishes").
 Hubrecht, A. A. W. 1908 A, 56 (Osteophora).
 Huene, F. 1907 A, 151-152 ("fische").
 1908 H, 156-175 ("fische").
 1910 F, 147-163 ("fische").
 1911 G, 146-161 ("fische").
 1926 A, 261 ("fische").

- Huntsman, A. G. 1919 A, 592.
 Huschke, E. 1822 A, 889 ("fische").
 Hussakof, L. 1910 A, 925 ("fishes").
 Huxley, T. H. 1853 A, 150 ("mackerel").
 1859 D, 442 ("fishes").
 1859 H, 33, 44 ("fishes").
 1863 E, 418.
 1863 F, 187, 189 ("bony-fish").
 1870 F, 538.
 1876 E, 84 ("fishes").
 1881 A, 454 ("fishes").
 Hyrtl, C. J. 1849 A, 79 ("fische").
 1862 A, 95 ("fische").
 Ihring, H. 1878 A, 74 ("knochenfische").
 1909 A, 287 ("fische").
 Jacobshagen, E. 1920 A, 88, 95 ("fische").
 Jaekel, O. 1901 B, 52 ("fische").
 1903 F, 28, 47.
 1906 D, 188.
 1909 A, 200.
 1909 D, 707 ("fische").
 1911 A, 25.
 1913 A, 77 ("fische").
 1925 A, 165 ("fische").
 Jordan, D. S. 1898 A, 173 ("fishes").
 1901 A ("fishes").
 1902 A, 240 ("fishes").
 1904 A, 597 ("bony fishes").
 1905 A, 598 (Teleostomi).
 1905 B ("fishes").
 1919 C, 337 ("fishes").
 1922 C, 177 ("fishes").
 1923 A ("fishes").
 Jordan and Gilbert 1882 A, 73.
 Kehrer, F. A. 1896 A, 346 ("fische").
 Kemna, A. 1903 A, 340 ("poissons").
 Kesteven, H. L. 1922 A, 307 ("fishes").
 Keyes, C. 1924 A, 233 ("fishes").
 Kingsley, J. S. 1885 A, 90.
 1901 A, 197 ("bony fishes").
 1925 A, 27, 223, 231 ("fishes").
 Klaatsch, H. 1893 B, 649 ("fische").
 1893 C, 143 ("fische").
 Klein, E. E. 1868 A ("fische").
 1884 A ("knochenfische").
 1885 A ("knochenfische").
 Kner, R. 1860 B, 807 ("fische").
 1861 A, 232 ("fische").
 Koken, E. 1889 B, 117 ("fische").
 1893 B, 640 ("fische").
 1898 B, 142 ("fische").
 Kolmer, W. 1923 A, 530 ("fische").
 Kolzoff, N. K. 1896 A, 514 ("knochenfische").
 Köstlin, O. 1844 A, 304 ("knochenfische").
 Larger, R. 1913 A ("poisson").
 Lavocat, A. 1884 A, 1126 ("poissons").
 1885 A, 28 ("poissons").
 1888 A, 62 ("poissons").
 1889 A, 42 ("poissons").
 1896 B, 193 ("poissons").
 1897 A, 138 ("poissons").
 Le Damany, P. 1902 A, 333 ("poissons").
 1903 G, 150, fig. 7 ("poissons").
 Ledouble, A. F. 1903 A, 647 ("poissons").
 1906 A, 551 ("poissons").
 Leidig, F. 1850 A, 170 ("knochenfische").
 Lemoine, V. 1889 A, 233 ("poissons").
 Leunis and Ludwig 1883 A, 631.
 Lönnberg, E. 1901 A.
 1902 A.
 Lütken, C. F. 1881 A, 1-14; 107-123.
 Macdonald, W. 1839 A, 69 ("osseous fishes").
 1841 A, 131 ("fishes").
 1863 A, 57 ("fishes").
 1871 A, 473 ("osseous fishes").
 M'Donnell, R. 1864 A, 161 ("fishes").
 McMurrich, J. P. 1912 A, 168.
 Mandl, L. 1840 A, 338 ("poissons").
 Marsh, O. C. 1899 C, 71 ("fishes").
 Mayr, A. F. 1862 A, 108 ("fische").
 Meckel, J. F. 1825 A ("knochenfische").
 Meunier, S. 1903 A, 774 ("poissons").
 Mivart, St. G. 1871 B, 378 ("osseous fishes").
 Montgomery, T. H. 1901 A, 21733 ("fishes").
 Moodie, R. L. 1920 C, 47 ("fishes").
 1922 B, 320 ("fishes").
 Mutel, —. 1921 A, 522 ("poissons").
 Noorden, C. 1883 A, 235 ("knochenfische").
 Nusbaum, J. 1908 A, 513 ("knochenfische").
 Oken, L. 1818 A, 512 ("fische").
 1819 A, 1531 ("fische").
 1823 B, 448 ("fische").
 Ortman, A. E. 1901 A, 694 ("fishes").
 Osborn, H. F. 1916 E, 511 ("fishes").
 1917 B, 313 ("fishes").
 1926 C, 339 ("fishes").
 Osburn, R. C. 1906 B, 585 ("fishes").
 Owen, R. 1846 E ("fishes").
 1848 B ("osseous fishes").
 1868 A, 900.
 Paramore, R. H. 1910 A, 1393 ("fishes").
 Parker, G. H. 1904 A, 496 ("fishes").
 Perrier, E. 1920 A ("poissons").
 Pompeckj, J. F. 1914 A, xcii ("fische").
 Pouchet, G. 1875 A, 288 ("poissons osseux").
 1878 A, 34, 140 ("poissons osseux").
 Rauther, M. 1919 A, 215 ("fische").
 Regan, C. T. 1906 A, 724.
 1909 B, 75.
 1924 A, 175 ("fishes").
 Reichert, K. B. 1849 A, 494, 508 ("fische").
 Reis, O. 1894 B, 87 ("fische").
 Retterer, E. 1905 A, 125 ("poissons").
 1905 C, 246 ("poissons").
 1905 D, 366 ("poissons").
 1908 B, 537 ("poissons").
 Richardson, J. 1846 A, 199 (Ostinopteri); 329 (Ossei).
 Ridewood, W. G. 1896 A, 380 ("fishes").
 Ryder, J. 1885 E, 90 ("fishes").
 1887 A, 344 (Ichthytes, in part).
 Sewertzoff, A. N. 1918 A, 206 ("fishes").
 1926 D, 76, 90 (Osteichthytes).
 Sabatier, A. 1896 A, 121 ("poissons").
 1897 A, 932.
 1898 A, 930 ("poissons osseux").
 1902 A, 100 ("poissons").
 1903 A, 893 ("poissons").
 Sagemehl, M. 1883 A ("knochenfische").
 Salbey, R. 1868 A, 729 ("fische").
 Schlosser, M. 1917 A, 131 ("fische").
 Schmalhausen, J. J. 1913 C ("fische").
 1917 A, 108 ("fishes").
 1923 A, 534 ("fische").
 Schubert, R. J. 1906 A, 627 ("fische").
 Schuchert and Barrell 1914 A, 25.

- Scott, W. B. 1917 A, 176 ("fishes").
 Seeley, H. G. 1872 B, 26 ("fish").
 Serres, M. 1852 B, 192 ("poissons").
 Sewertzoff, A. N. 1896 A, 271 ("fische").
 1897 A, 411 ("knochenfische").
 1923 A, 408 (Osteichthyes).
 1923 B, 145 (Osteichthyes).
 1926 A, 508, 526, 537 (Osteichthyes).
 1926 B, 579 (Osteichthyes).
 1926 C, 44 (Osteichthyes).
 1926 E, 555 (Osteichthyes).
 Shann, E. W. 1919 A, 532 (Osteichthyes).
 Shepherd, C. A. 1910 A, 418.
 Simpson, G. G. 1925 D, 289.
 Solger, B. 1880 A, 364 ("knochenfische").
 Spencer, W. B. 1886 A, 233.
 Springer, F. 1924 A, 233 ("fishes").
 Stadtmüller, F. 1926 A, 155 ("knochenfische").
 Stannius, H. 1842 C, 97 ("fische").
 1849 A, 533 ("knochenfische").
 Starks, E. C. 1900 A ("fish").
 1905 A, 754 ("fishes").
 1908 A, 413 ("fish").
 1926 A, 82 ("fishes").
 Steenstrup, J. 1861 A, 368 ("poissons").
 Steinman, G. 1907 A, 405 (Eulichthyes).
 1908 A, 205 ("knochenfische").
 1912 A, 48 ("fische").
 Stephan, P. 1900 A, 281 ("poissons").
 Storch, O. 1911 A, 195 ("fische").
 Strecker, C. 1887 A, 301 ("knochenfische").
 Stromer, E. 1912 A, 15.
 1920 A, 18 ("fische").
 Sutton, J. B. 1884 A, 570 ("fish").
 Swinnerton, H. H. 1911 A, 447 ("fishes").
 Taschenberg, O. 1894 A, 3345-3366.
 Taylor, H. F. 1916 A, 289 ("fish").
 Terra, P. 1911 A, 134, 197.
 Terry, R. J. 1909 A, 525 ("fishes").
 Thilo, O. 1896 A, 285 ("fische").
 1896 B, 96 ("fische").
 1897 A, 171 ("fische").
 1898 A, 141 ("fische").
 1898 B, 81 ("fische").
 1900 A, 18 ("fische").
 1900 B, 19 ("fische").
 Thilo, O. 1903 A, 528 ("fische").
 1913 A, 289 ("fische").
 Tomes, C. S. 1875 C, 362 ("fish").
 1877 A, 44 ("fish").
 1900 A, 35 ("osseous fishes").
 Traquair, R. H. 1900 C, 502 ("fishes").
 Vaillant, L. 1874 A, 406 ("poissons").
 Vanhöffen, E. 1891 A, 134 ("fische").
 Veit, O. 1916 A, 375 ("fische").
 Versluys, J. 1912 A, 501 ("fische").
 1925 B, 182 ("knochenfische").
 Wagner, R. 1843 A, 204 (Ostacanthi).
 Wallace, A. R. 1876 A, i, 494; ii, 575 ("fishes").
 Watson, D. M. S. 1917 A, 981 ("fish").
 1917 B, 61 ("fishes").
 Webb, W. M. 1905 A, 59 ("fishes").
 Weber, E. H. 1821 A, 1059.
 Weidenreich, F. 1926 A, 46 ("fische").
 White, C. 1885 A, 44 ("fishes").
 Whitehouse, R. H. 1914 A, 522 ("fishes").
 1918 A, 135 ("fishes").
 Wiedersheim, R. 1881 B, 326.
 1892 A, 43 ("fische").
 Wilbrand, J. B. 1824 A, 982 ("fische").
 Wilder, B. G. 1865 A, 56 ("fishes").
 1872 B ("fishes").
 Williamson, W. C. 1851 A, 643 ("fishes").
 Winslow, G. M. 1898 A, 186 ("fishes").
 Woodward, A. S. 1898 B, 18.
 1898 C, 257 ("fishes").
 1909 A, 323 ("fishes").
 1910 B, 464 ("fishes").
 1917 D, lxx ("fishes").
 1920 D ("fishes").
 1922 C, 53, 61.
 Woodward and Sherborn 1891 A, 26.
 Woodward, H. 1904 B, 139 ("fishes").
 Wright, E. P. 1878 A, 286 ("fishes").
 1878 B, 149 ("fishes").
 Wyman, J. 1867 B, 264 ("fishes").
 Ziegler, H. E. 1901 A ("knochenfische").
 1908 A, 721 ("knochenfische").
 Zittel, K. A. 1901 A, 409 ("fishes").
 Zittel and Koken 1911 A, 3 (Pisces, in part).
 Zittel and Schlosser 1923 A, 5 (Pisces, in part).
 Zittel and Woodward 1902 A, 2.

Subclass OSTRACOPHORA Cope.

- Cope, E. D. 1891 G, 646.
 Hay, O. P. 1902 A, 359 (Aspidoganoidei).
 Abel, O. 1912 F, 206, 476 ("ostracodermen").
 Barrell, J. 1915 B, 372 ("ostracoderms").
 Berry, E. W. 1925 A, 356 ("ostracoderms").
 Bridge, T. W. 1904 A, 149, 522, 749 (Ostracodermi).
 Bryant, W. L. 1926 B, 256 ("ostracoderms").
 Caypo'e, E. W. 1900 A, 248 ("ostracoderms").
 Cope, E. D. 1889 R, 852, 853 (Arrhina).
 1891 N, 9.
 Cunningham, J. T. 1912 A, 250 ("ostracoderms").
 Dean, B. 1900 A, 13 ("ostracoderms"); 22 (Ostracophora).
 1901 C, 110, seq. (Ostracophori).
 1912 A, 226 ("ostracophores").
 Dollo, L. 1903 D, 700 ("ostracoderms").
 1910 A, 390 ("ostracoderms").
 Eastman, C. R. 1898 E, 183 (Ostracodermi).
 1900 G, 287 ("ostracoderms").
 1901 D, 329 ("ostracoderms").
 1904 C, 141 ("ostracophores").
 1905 A, 46 ("ostracophores").
 1906 D, 2 (Ostracophori).
 1907 B, 23, 24, 232 (Ostracophori).
 1908 A, 54, 59, 69 ("ostracophores").
 1917 A, 237 (Ostracodermi).
 Fraipont, C. 1912 A, 66 ("ostracophores").
 Gadow, H. 1910 A, 27 (Ostracodermi).
 Gaskell, W. H. 1908 A, 326, 343 (Ostracodermata).
 Goodrich, E. S. 1904 A, 493 (Ostracodermi).
 1909 A, 194, 407 (Ostracodermi).
 Gregory, W. K. 1915 D, 318, 341 (Ostracodermi).
 1922 A, 3 ("ostracoderms").
 1928 A, 4, fig. 2 ("ostracoderms").
 Hussakof, L. 1906 A, 135 (Euostracophora).

- Hussakof and Bryant 1919 A, 21 (Euostracophori).
 Jaekel, O. 1902 A, 103 ("placodermen" in part).
 Jordan, D. S. 1903 A, 135 (Aspidoganoidei, Ostracophora).
 1905 A, i, 568; ii, 584 (Ostracophori).
 1907 B, 223, 759 (Ostracophori).
 1923 A, 84 (Ostracophori).
 Kemna, A. 1903 A, 347 ("ostracodermes").
 1904 A, 14 ("ostracodermes").
 Keyes, C. A. 1922 A, pl. iii (Ostracodermata).
 Kiaer, J. 1924 A, *passim* (Ostracodermi).
 1928 A, 118 ("ostracodermes").
 Kingsley, J. S. 1925 A, 10, 90 (Ostracoderma).
 Lankester, E. R. 1897 A, 45 (Ostracodermi).
 Moodie, R. L. 1915 I, 138, 140 ("ostracodermes").
 1926 A, 75.
 1928 A, 348 (Ostracodermi).
 Parker and Haswell 1897 A, 243 (Ostracodermi).
 Patten, W. 1902 B, 180 ("ostracodermes").
 1903 A, 223 ("ostracodermes").
 1903 B, 828 ("ostracodermes").
 1903 C, 488 ("ostracodermes").
 1903 D, 1 ("ostracodermes").
 1904 A, 123 ("ostracodermes").
 Patten, W. 1905 A, 297 ("ostracodermes").
 1905 B, 140 ("ostracodermes").
 1912 A, 485 ("ostracodermes").
 1925 A, x ("ostracodermes").
 1926 A, 237 ("ostracodermes").
 Raymond, P. E. 1925 A, 433 ("ostracodermes").
 Schmalhausen, J. J. 1913 A, 76 (Ostracodermi).
 Schuchert, C. 1915 A, 686 (Ostracodermi).
 Stetson, H. C. 1928 A, 230.
 Stromer, E. 1905 H, 216 (Ostracodermi).
 1912 A, 36, 48 (Ostracodermi).
 1920 A, 11 (Ostracodermi).
 Thevenin, A. 1910 A, 35 ("ostracodermes").
 Traquair, R. H. 1900 C, 504 (Ostracodermi).
 1903 A, 731 (Ostracodermi).
 Woodward, A. S. 1897 B, 144 (Ostracodermi).
 1906 A, 313 (Ostracodermi).
 1906 C, 267 ("ostracodermes").
 1910 D, 31 ("ostracodermes").
 1915 B, lxiii (Ostracodermi).
 1920 D, 26 (Ostracodermi).
 1922 C, 53 (Ostracodermi).
 Woodward, H. 1904 B, 139 (Ostracodermi).
 Zittel and Woodward 1902 A, 50 (Ostracodermi).

Order PTERASPIDOMORPHI Goodrich.

- Goodrich, E. S.* 1909 A, 195.
 Unless otherwise indicated, the authors, as cited, employ the name *Heterostraci*.
 Hay, O. P. 1902 A, 339.
 Adams, L. A. 1919 A, 112.
 Andreæ, A. 1901 B, 507.
 Barrell, J. 1915 B, 402.
 Bridge, T. W. 1904 A, 524, 742.
 Claypole, E. W. 1900 A, 245.
 Cope, E. D. 1891 N, 9.
 Dean, B. 1900 A, 22.
 1901 C, 113.
 Dean, Gudger, Henn 1923' A, 401, 663.
 Eastman, C. R. 1903 E, 573.
 1907 B, 23, 25, 27, 28.
 1908 A, 69, 72.
 Goodrich, E. S. 1908 A, 754.
 Jaekel, O. 1903 D, 41.
 1911 A, 32.
 1913 A, 85 ("heterostraken").
 Jordan, D. S. 1905 A, i, 573; ii, 574.
 1907 B, 759.
 1923 A, 85.
 Kemna, A. 1903 A, 348, 350, 368.
 Kiaer, J. 1924 A, 114, 116, 123 (Heterostraci);
 116 (Pteraspitomorphi).
 1928 A, 117, 125 ("pteraspids").
 Koken, E. 1899 B, 172 (Aspidorhini).
 Lankester, E. R. 1868 A, 14, 16.
 1870 C, 62.
 Osburn, R. C. 1907 B, 173.
 Parker and Haswell 1897 A, 243.
 Pompeckj, J. F. 1913 A, 1110.
 Regan, C. T. 1904 A, 344.
 Rohon, J. V. 1902 A, 27 (Aspidorhini).
 Rosén, N. 1916 A, 11, 30.
 Sauvage, H. E. 1901 C, 66.
 Schlosser, M. 1917 A, 132, 133.
 Simpson, G. G. 1925 D, 289.
 1926 J, 173 ("ostracodermes").
 Stetson, H. C. 1928 A, 223.
 Stromer, E. 1912 A, 37.
 1920 A, 11, 12.
 Traquair, R. H. 1899 A, 853.
 1899 C, 602.
 1900 C, 504.
 1903 A, 731.
 Woodward, A. S. 1922 C, 54.
 Woodward, H. 1878 A, 6.
 1904 B, 140.
 1920 D, 28.
 Zittel and Koken 1911 A, 28.
 Zittel and Schlosser 1923 A, 29.
 Zittel and Woodward 1902 A, 50.

THELODONTIDÆ Jordan.

- Jordan, D. S.* 1905 A, II, 573.
 Unless otherwise indicated the authors, as quoted, use the names *Cœlolepidæ* or *Cœlolepididæ*.
 Andreæ, A. 1901 B, 505.
 Abel, O. 1919 A, 72.
 Barrell, J. 1915 B, 398.
 Bryant, W. L. 1926 B, 257.
 Dollo, L. 1903 D, 701.
 Eastman, C. R. 1901 C, 328.
 1907 B, 23, 27, 91.
 Eastman, C. R. 1908 A, 55, 69, 160.
 Goodrich, E. S. 1909 A, 196.
 Jordan, D. S. 1923 A, 85 (Thelodontidæ).
 Kemna, A. 1904 A, 12 ("cœlolépides").
 Kiaer, J. 1924 A, 17, 18, 24, 94, 114, 116, 117, 119.
 Pander, C. H. 1856 A, 64 ("cœlolepiden").
 Pompeckj, J. F. 1913 A, 1111.
 Sauvage, H. E. 1901 C, 65.
 Schlosser, M. 1917 A, 146 ("cœlolepiden").
 Stetson, H. C. 1928 A, 221.

Stromer, E. 1905 D, 314 ("cœlolepiden").
 Traquair, R. H. 1899 A, 828, 843.
 1899 C, 597.
 1903 A, 731.
 Woodward, A. S. 1891 A, 157.

Woodward, A. S. 1898 B, 28.
 1900 D, 71.
 Zittel, Eastman, etc. 1902 A, 50.
 Zittel and Koken 1911 A, 28.
 Zittel and Schlosser 1923 A, 29.

THELODUS Agassiz. Type *T. parvidens* Agassiz.

Agassiz, L. 1839, Murchison's Silur. Syst., 606,
 704, pl. iv, figs. 34-36.
 Abel, O. 1919 A, 70, 73, figs. 33, 34.
 1920 A, 320, fig. 507.
 Adams, L. A. 1919 A, 120.
 Andreae, A. 1901 B, 505.
 Barrell, J. 1915 B, 394.
 Crook, C. V. 1901 A, 119.
 Dean, Gudger, Henn 1923 A, 401, 663.
 Deecke, W. 1926 A, 185.
 Dollo, L. 1910 A, 390.
 Eastman, C. R. 1901 C, 328.
 1908 A, 55, fig. 1.
 Goodrich, E. S. 1908 A, 754, fig. 196.
 1909 A, 196, 517, fig. 168.
 Hilzheimer, M. 1913 A, 468.
 Jaekel, O. 1911 A, 36, fig. 23.
 Jordan, D. S. 1919 B, 309 (Syn. of *Asterodon*).
 MacBride, E. W. 1910 A, 18.
 M'Coy, F. 1853 C, 14.
 1855 A, 576.
 Murchison, R. 1853 A, 16.
 1854 A, 238.
 Pander, C. H. 1856 A, 66, pls. iv, vi (*Cœlo-*
 lepis); 67 (*Pachylepis*, *Thelopsis*).
 Pompeckj, J. F. 1913 A, 1110, figs. 3, 6.
 Preobrajensky, J. A. 1911 A, 26 (*Cœlolepis*,
 Thelodus).
 Powrie, J. 1870 A, 298, pl. xiv, fig. 16 (*Cephal-*
 opterus).
 Roemer, F. 1885, Palacont. Abhandl., ii, 359, pl.
 xxx, figs. 21-25.
 Rohon, J. V. 1893 A, 11.
 Rosén, N. 1916 A, 12, fig. 5.
 Sauvage, H. E. 1901 C, 63 (*Thelodus*, *Cœlolepis*)

Smith, B. 1910 A, 656.
 Stensiö, E. A. 1927 A, 331.
 Stetson, H. C. 1928 A, 221.
 Stromer, E. 1912 A, 37, fig. 47.
 1920 A, 13.
 Traquair, R. H. 1899 A, 829, pl. i (*Cœlolepis a*
 syn.).
 1899 C, 595, pl.
 1900 B, 465.
 1900 D, 66.
 1903 A, 731.
 1905 B, 880, pl. i, text-fig. 1.
 Woodward, A. S. 1891 A, 158 (*Cœlolepis*, *Thelo-*
 odus).
 1898 B, 28 (*Cœlolepis*, *Thelodus*).
 1904 C, 186.
 1906 C, 267, fig. 1.
 1920 D, 28, fig. 28.
 1922 C, 55.

Zittel, Eastman, etc. 1902 A, 51, fig. 99.
 Zittel and Koken 1911 A, 29, figs. 33, 34.
 Zittel and Schlosser 1923 A, 29, fig. 35.

Thelodus macintoshi Stetson.

Stetson, H. C. 1928 A, 223, figs. 1-6.
 Silurian (Niagara?); New Brunswick.

Thelodus sp. indet.

Eastman, C. R. 1907 B, 13. Lower Devonian
 (Oriskany); Nova Scotia.
 1908 A, 72, 266, pl. i, figs. 7, 8, 15; pl. ii,
 figs. 13, 14 (This genus?). Middle De-
 vonian (Columbus limestone); Ohio.
 Stauffer, C. R. 1909 A, 169 (*Cœlolepis*); 170.
 Middle Devonian (Columbus); Ohio.

ASTRASPIDÆ Eastman.

Eastman, C. R. 1917 A, 237.
 Jordan, D. S. 1923 A, 85.

Zittel and Schlosser 1923 A, 31.

EOICHTHYS Bryant. Type *E. howelli* Bryant.

Bryant, W. L. 1926 A, 236.

Eoichthys howelli Bryant.

Bryant, W. L. 1926 A, 236.

Howell, B. F. 1926 A, 236 ("fish plate?").
 Cambrian (St. Albans shale); Vermont. A
 doubtful fish plate. No description.

ASTRASPIS Walcott. Type *A. desiderata* Walcott.

Hay, O. P. 1902 A, 342.
 Clarke, J. M. 1895 A, 121 ("fossil fishes").
 Eastman, C. R. 1915 B, 439.
 1917 A, 238.
 Rogers, A. F. 1924 A, 546.
 Schlosser, M. 1917 A, 132 ("spuren von fischen").
 Stensiö, E. A. 1927 A, 314.
 Stromer, E. 1920 A, 10, 11.
 Vaillant, L. 1902 A, 1321 ("poissons").
 Walcott, C. D. 1891 A, 245 ("fish").
 Woodward, A. S. 1921 A, 179.

Woodward, A. S. 1922 C, 58.
 Zittel and Schlosser 1923 A, 32.

Astraspis desiderata Walcott.

Hay, O. P. 1902 A, 342.
 Cockerell, T. D. A. 1913 A, 246.
 Eastman, C. R. 1907 B, 12.
 1908 A, 75.
 1917 A, 238, pl. xii, figs. 5, 6.
 Jaekel, O. 1892 C, 168 ("fish remains").
 1895 D, 162.

Jordan, D. S. 1905 A, i, 578 (Asteraspis).
 Merrill, G. P. 1907 A, 7.
 Woodward, A. S. 1920 D, 33.
 Ordovician (Black River); Colorado.

Astraspis sp. indet.

Cockerell, T. D. A. 1913 A, 246. Ordovician?;
 Colorado.

PTERASPIDÆ Claypole.

Hay, O. P. 1902 A, 339.
 Abel, O. 1919 A, 82.
 Allis, E. P. 1905 A, 488.
 Andreæ, A. 1901 B, 507.
 Arltdt, T. 1907 D, 677.
 Bridge, T. W. 1904 A, 527.
 Bryant, W. L. 1926 B, 256.
 Dean, B. 1901 C, 110 ("pteraspids").
 Dean, Gudger, Henn 1923 A, 401, 663.
 Deecke, W. 1913 A, 87.
 Drevermann, F. 1904 A, 285 ("pteraspiden").
 Eastman, C. R. 1907 B, 23.
 1908 A, 55 ("pteraspidians").
 Gebhardt, F. A. M. W. 1907 A, 73 ("pteraspiden").
 Goodrich, E. S. 1908 A, 754 ("pteraspids").
 1909 A, 198.
 Hilzheimer, M. 1913 A, 471.
 Howes, G. B. 1902 A, 525 ("pteraspidians").
 Jaekel, O. 1902 A, 105 ("pteraspiden").
 1906 C, 156 ("pteraspiden").
 1906 D, 187 ("cyathaspiden").
 1907 A, 186 ("pteraspiden," "cyathaspiden").
 1911 A, 33 (Pteraspidi, suborder).
 1919 A, 73 ("pteraspiden").
 1921 A, 226, 233 ("pteraspiden").
 1926 A, 183.

Jordan, D. S. 1905 A, i, 570, 575.
 1907 B, 759.
 1923 A, 85.
 Kemna, A. 1903 A, 347, 350 ("ptéraspidés").
 1904 A, 14 ("ptéraspidés").
 Kiaer, J. 1924 A, 91, 92, 105, 114, 115, 122.
 Koken, E. 1899 B, 172.
 Lankester, E. R. 1897 A, 45.
 Osborn, H. F. 1902 H, 749 ("pteraspids").
 Patten, W. 1902 A, 392.
 1903 B, 827, 831.
 1912 A, 264, 366 (Pteraspida).
 Pompeckj, J. F. 1913 A, 1110, 1113.
 Reis, O. M. 1894 A, 64 ("pteraspiden").
 Rohon, J. V. 1902 A, 4, 27.
 Sauvage, H. E. 1901 C, 66.
 Schlosser, M. 1917 A, 132, 133 ("pteraspiden").
 Simpson, G. G. 1925 D, 289.
 Steinmann, G. 1907 A, 417.
 Stensiö, E. A. 1927 A, 315.
 Stetson, H. C. 1928 A, 228.
 Stromer, E. 1920 A, 16.
 Trouessart, E. L. 1906 A, 213.
 Woodward, A. S. 1898 B, 5.
 1920 D, 29 ("pteraspidians").
 Zittel and Koken 1911 A, 30.
 Zittel and Schlosser 1923 A, 32.
 Zittel and Woodward 1902 B, 52.

PTERASPIS Kner. Type *Cephalaspis lewisii* Agassiz.

Hay, O. P. 1902 A, 339.
 Abel, O. 1907 D, (161).
 1912 F, 207, 476, 695, fig. 464.
 1919 A, 83, figs. 44-47.
 1920 A, 322.
 Adams, L. A. 1919 A, 121.
 Allis, E. P. 1905 A, 488.
 Andreæ, A. 1901 B, 507, fig. 3.
 Alth, A. 1884 A, 160.
 Barkas, W. J. 1874 D, 552.
 Bordage, E. 1892 A, 333.
 Bridge, T. W. 1904 A, 527, 753.
 Bryant, W. L. 1926 B, 256, 258.
 Claypole, E. W. 1896 B, 356.
 Cunningham, J. T. 1912 A, 250.
 Dean, B. 1904 D, 64.
 Dean, Gudger, Henn 1923 A, 401, 663.
 Dorlodot, H. 1912 A, 21.
 1912 B, 64.
 Drevermann, F. 1904 A, 275.
 Eastman, C. R. 1901 C, 328.
 1902 C, 506.
 1905 A, 40, fig. 3.
 1908 A, 58.
 Fraipont, C. 1912 A, 66.
 Frech, F. 1897 A, 123.
 Gaskell, W. H. 1895 A, 36.
 Goodrich, E. S. 1908 A, 754, fig. 196.
 1909 A, 195, fig. 166.
 Gregory, W. K. 1915 D, 319.
 Haeckel, E. 1868 A, 445.

Heilprin, A. 1887 A, 429.
 Hussakof, L. 1906 A, 134.
 Huxley, T. H. 1858 D, 510, pl. xv.
 1861 D, 458.
 1861 E, 417, figs. 1, 2.
 Jaekel, O. 1902 A, 105.
 1903 E, 92.
 1911 A, 33, fig. 18.
 1919 A, 74.
 1927 A, 261, fig. 6.
 Jordan, D. S. 1819 B, 232.
 Kemna, A. 1903 A, 345, figs. 7, 8.
 1904 A, 15, figs. 1-4.
 Kiaer, J. 1924 A, 91.
 1928 A, 119, pl. xii; text-figs. 1-3.
 Kingsley, J. S. 1925 A, 90.
 Lankester, E. R. 1864 C, 442.
 1864 D, 292.
 1865 B, 517.
 1868 A, 14, 28, figs. 4, 8.
 1897 A, 45.
 1905 A, 257, fig. 185.
 Leriche, M. 1903 A, 163.
 1906 B, 341.
 1906 C, 420.
 1912 A, 39.
 1912 B, 49.
 1924 A, 143.
 1925 A, 19, figs. 1, 2.
 Lütken, C. 1868 C.
 Mitchell, H. 1863 A, 31.

Moodie, R. L. 1926 A, 76, 77.
 Osborn, H. F. 1905 N, 235.
 Patten, W. 1894 A, 435.
 1902 A, 379, 389, figs. 1-3.
 1902 B, 181, fig. 6.
 1903 A, 224.
 1903 B, 828, figs. 1-3.
 1903 D.
 1912 A, 293, 364, figs. 196, 197, 245.
 Pompeckj, J. F. 1913 A, 1110, fig. 8.
 Powrie, J. 1861 A, 189.
 1863 A, 67, fig.
 1870 A, 284.
 Regan, C. T. 1904 A, 345.
 Rohon, J. V. 1902 A.
 Schuchert and Levene 1927 A, 266, fig.
 Simpson, G. G. 1926 K, 173.
 Stensiö, E. A. 1926 A, 1, figs. 1-6.
 1927 A, 316.
 Stetson, H. C. 1928 A, 228.
 Storms, R. 1891 A, 116.
 Stromer, E. 1905 D, 314.
 1920 A, 14, 15.
 Symonds, W. S. 1884 A, 161.
 Traquair, R. H. 1900 C, 504.
 Trouessart, E. L. 1906 A, 213.
 Whiteaves, J. F. 1901 A, 182.
 Woodward, A. S. 1898 B, 6, figs. 3-6.
 1900 E, 203.
 1910 D, 31.
 1920 D, 29.
 1922 C, 55, figs. 50, 51.
 Woodward, H. 1878 A, 7, pl. i, fig. 3.

Zittel and Koken 1911 A, 31.
 Zittel and Schlosser 1923 A, 33, figs. 38, 39.
 Zittel and Woodward 1902 A, 52.

***Pteraspis crouchii* Lankester.**

Lankester, E. R. 1865 A, 58.
 Abel, O. 1919 A, 82, figs. 44-45.
 1920 A, 322, fig. 511 (*P. crouchi*).
 Alth, A. 1884 A, 170.
 Ami, H. M. 1901 B, 309, 311 (This species?).
 Dawson, G. M. 1899 A, 182 (*Pteraspis* sp.).
 Fraipont, C. 1912 A, 69.
 Kemna, A. 1904 A, 15, figs. 1-4 (*P. crouchi*).
 Lankester, E. R. 1864 D, 292.
 1868 A, 30, pl. iii; pl. iv, fig. 5; pl. vi, figs. 4, 7, 8; pl. vii, figs. 4, 8, 11.
 1905 A, 259, figs. 187, 188.
 Leriche, M. 1903 A, 161, pls. v, vi, text-figs. 1, 2 (*P. crouchi*).
 1906 C, 413, pl. ii, text-figs. 9-12.
 1924 A, 145, pl. iii; text-figs. 2, 3 (*P. crouchi*).
 1925 A, 25.
 Stensiö, E. A. 1926 A, 3, figs. 1, 4.
 1927 A, 317, fig. 86.
 Twenhofel, W. H. 1913 A, 303 (This species?).
 Woodward, A. S. 1887 A, 478, fig.
 1891 A, 167.
 1898 B, 6, fig. 5.
 1901 C, 311.
 1902 D, 203.
 Lower Devonian (Knoydart); Nova Scotia; Europe.

CYATHASPIS Lankester. Type *Pteraspis banksii* Huxley and Salter.

Hay, O. P. 1902 A, 340.
 Abel, O. 1912 F, 476.
 1919 A, 86, fig. 48.
 Alth, A. 1884 A, 164.
 Arldt, T. 1923 A, 482.
 Barkas, W. J. 1874 D, 550.
 Bryant, W. L. 1926 B, 256.
 Claypole, E. W. 1896 B, 358.
 Dean, Gudger, Henn 1923 A, 663.
 Eastman, C. R. 1902 C, 506.
 1903 E, 575.
 1907 B, 30, 228.
 Gaskell, W. H. 1908 A, 523.
 Goodrich, E. S. 1909 A, 195, fig. 172.
 Hussakof, L. 1906 A, 134.
 Jaekel, O. 1902 A, 104.
 1903 D, 58.
 1903 E, 86, fig. 5.
 1921 A, 226, 233.
 1926 A, 162, 165, 183, fig. 5.
 1927 A, 260.
 Kemna, A. 1903 A, 351, 355, figs. 4, 5.
 1904 A, 24.
 Lankester, E. R. 1864 D, 292.
 1868 A, 14, 26, fig. 5.
 Leriche, M. 1906 B, 341, figs. 1, 2.
 1906 C, 414.
 Patten, W. 1902 B, 192.
 1903 A, 224.
 1903 B, 841.

Patten, W. 1903 D, 13.
 1912 A, 344, 350.
 Pompeckj, J. F. 1913 A, 1110, fig. 4.
 Preobrajensky, J. A. 1911 A, 25.
 Symonds, W. S. 1884 A, 161.
 Traquair, R. H. 1900 C, 504.
 Woodward, A. S. 1910 D, 31.
 1920 D, 29.
 1922 C, 55, fig. 49.
 Woodward, H. 1878 A, 8, fig. 4.
 Zittel and Koken 1911 A, 32.
 Zittel and Schlosser 1923 A, 33, fig. 40.
 Zittel and Woodward 1902 A, 53.

***Cyathaspis acadica* (Matthew).**

Hay, O. P. 1902 A, 340.
 Dana, J. D. 1896 A, 546 (*Diplaspis*).
 Eastman, C. R. 1907 B, 12.
 1908 A, 72.
 Kiaer, J. 1924 A, 124.
 Lambe, L. M. 1904 C, 14, 15, 33, 40.
 1912 A, 3 (*Diplaspis*).
 Matthew, G. F. 1907 A, 9 (*Diplaspis*).
 Moodie, R. L. 1926 A, 67 (*Coccosteus*).
 Silurian (Niagara?); New Brunswick.

***Cyathaspis vaningeni* Bryant.**

Bryant, W. L. 1926 B, 269, pl. ii, fig. 1; pl. iv, fig. 2.
 Silurian (Salina or Medina); New York.

Cyathaspis wardelli (Ruedemann).

Ruedemann, R. 1916, Bull. N. Y. State Mus., No. 189, 102, pl. xxxii, figs. 1-12; text-figs. 2, 3 (Anatifopsis).

Bryant, W. L. 1926 B, 266, pl. i, fig. 2; pl. ii, figs. 5, 6; pl. iv, fig. 1.
Silurian (Salina or Medina); New York.

PALÆASPIS Claypole. Type *P. americana* Claypole.

Hay, O. P. 1902 A, 340.
Arlt, T. 1923 A, 482 (Holaspis).
Bryant, W. L. 1926 B, 256, 258.
Claypole, E. W. 1896 B, 358.
1900 A, 248.
1903 A, 335.
Dean, Gudger, Henn 1923 A, 663.
Eastman, C. R. 1917 A, 239.
Frech, F. 1897 A, 123.
Goodrich, E. S. 1909 A, 199, fig. 170.
Jaekel, O. 1894 D, 466.
1919 A, 73, fig. 1 ("palæaspiden").
1925 A, 165 ("palæaspiden").
1928 A, 43 ("palæaspiden").
Kemna, A. 1903 A, 345.
Kiaer, J. 1924 A, 91.
Leriche, M. 1926 A, 18, pls. i, ii.
Osborn, H. F. 1916 E, 603, fig. 11.
1917 B, 165, fig.
Sewertzoff, A. N. 1926 C, 44 ("palæaspiden").
Simpson, G. G. 1926 K, 173.
Stensiö, E. A. 1926 A, 1.
1927 A, 316, 326.
Traquair, R. H. 1900 C, 504.
Zittel and Koken 1911 A, 32.
Zittel and Schlosser 1923 A, 33.
Zittel and Woodward 1902 A, 53.

Palæaspis americana Claypole.

Hay, O. P. 1902 A, 340 (*P. americana*, *P. elliptica*).
Bryant, W. L. 1926 B, 261, pl. i; pl. ii, fig. 1.
Chamberlin, T. C. 1900 A, 402 (Pteraspis).
Claypole, E. W. 1884 C, 34 ("fish").
1884 D, 270 ("fish").
1884 E, 326 ("fish").
1885 E, 90.
Dana, J. D. 1896 A, 557, figs. 800-804.
Eastman, C. R. 1907 B, 12, 29.
1908 A, 73.
1917 A, 239.
Lambe, L. M. 1904 C, 15 (*P. elliptica*).
Symonds, W. S. 1884 A, 159 ("fish").
Silurian (Salina); Pennsylvania.

Palæaspis bitruncata Claypole.

Claypole, E. W. 1884 A, 1224.
Hay, O. P. 1902 A, 340 (*P. americana*, in part).
Bryant, W. L. 1926 B, 264, pl. ii, fig. 3; pl. iii, figs. 2-5.
Claypole, E. W. 1885 E, 90.
Moodie, R. L. 1926 A, 67, 76.
Silurian (Salina); Pennsylvania.

EUPHANEROPIDÆ A. S. Woodward.

Hay, O. P. 1902 A, 341.
Eastman, C. R. 1907 B, 23.
Goodrich, E. S. 1909 A, 206.
Jordan, D. S. 1923 A, 86.
Kiaer, J. 1924 A, 136.
Lambe, L. M. 1904 C, 40.

Sauvage, H. E. 1905 A, 189.
Simpson, G. G. 1925 D, 289.
Zittel and Woodward 1902 A, 54.

This family may belong in the Cephalaspidomorphi (Osteostraci).

EUPHANEROPS Woodward. Type *E. longævus* Woodward.

Hay, O. P. 1902 A, 341.
Jordan, D. S. 1920 C, 491.
Kiaer, J. 1924 A, 125.
Lambe, L. M. 1912 A, 4.
Sauvage, H. E. 1905 A, 189.
Simpson, G. G. 1926 C, 400.
Whiteaves, J. F. 1907 B, 247.
Woodward, A. S. 1922 C, 54.
Zittel and Woodward 1902 A, 54.

Euphanerops longævus Woodward.

Hay, O. P. 1902 A, 341.
Ami, H. M. 1901 A, 174.
Clarke, J. M. 1913 A, 113.
Eastman, C. R. 1907 B, 16, 31.
1908 A, 280.
Kiaer, J. 1924 A, 29, 56, 58, 95, 125.
Lambe, L. M. 1904 C, 16, 34, 40.
Sauvage, H. E. 1905 A, 189.
Whiteaves, J. F. 1907 B, 248.
Zittel and Woodward 1902 A, 54.
Upper Devonian (Scaumenac); Quebec.

PSAMMOSTEIDÆ Traquair.

Traquair, R. H. 1899 A, 847.
Andreæ, A. 1901 B, 507.
Bryant, W. L. 1926 B, 257.
Dean, Gudger, Henn 1923 A, 663.
Eastman, C. R. 1908 A, 55.
1915 B, 439.
Goodrich, E. S. 1909 A, 198.
Jaekel, O. 1911 A, 36.
1925 B, 168 ("psammosteiden").
Jordan, D. S. 1923 A, 85.

Kiaer, J. 1915 A, 21.
1924 A, 114.
Patten, W. 1912 A, 366.
Preobrajensky, J. A. 1911 A, 19, 34.
Reis, O. M. 1894 A, 64 ("psammosteiden").
Sauvage, H. E. 1901 C, 66.
Woodward, A. S. 1922 C, 55.
Besides *Psammosteus*, Jordan refers to this family *Acanthaspis* and *Acantholepis*.

PSAMMOSTEUS Agassiz. Type *P. mæandrinus* Agassiz.

- Agassiz, L. 1844 B (1845), 103.
 Dames, W. 1898 C, 331.
 Dean, Gudger, Henn 1923 A, 401.
 Goodrich, E. S. 1909 A, 196, fig. 166.
 Kiaer, J. 1915 A, 21, 34, 54.
 Matthew, W. D. 1908 H, 110.
 Moodie, R. L. 1926 A, 76.
 Preobrazhensky, J. A. 1911 A, 24, 28, figs. 6-9.
 Traquair, R. H. 1899 A, 847.
 1900 C, 504.
 Woodward, A. S. 1895 B, 38, fig. 1.
 1911 B, 649, pl. ix.
 1915 B, lxiv.
 1920 D, 28.
 Zittel and Schlosser 1923 A, 31.
Psammosteus anglicus? Traquair.
 Traquair, R. H. 1898 A, 67, pl. i, figs. 1, 2.

- Ani, H. M. 1901 B, 309, 312 (This species?).
 Twenhofel, W. H. 1913 A, 303 (This species?).
 Woodward, A. S. 1900 E, 203 (This species?).
 1901 C, 312 (This species?).
 1902 D, 203 (This species?).
 Lower Old Red Sandstone; England: Lower Devonian (Knoydart); Nova Scotia.

Psammosteus arcticus Kiaer.

- Kiaer, J. 1915 A, 23, pl. ii, figs. 5-7; pl. iii, figs. i-iv; pl. v, figs. 4-5.
 Ellesmere Land.

Psammosteus complicatus Kiaer.

- Kiaer, J. 1915 A, 26, pl. ii, fig. 8; pl. v, figs. 1-3; pl. vi, fig. 1-3; text-fig. 5.
 Upper Devonian; Ellesmere Land.

Order CEPHALASPIDOMORPHI Goodrich.

- Goodrich, E. S. 1909 A, 200.
 Unless otherwise indicated the authors, as cited below, use the name Osteostraci.
 Hay, O. P. 1902 A, 340.
 Abel, O. 1912 F, 432.
 1919 A, 69.
 1920 A, 321.
 Andrae, A. 1901 B, 507.
 Bridge, T. W. 1904 A, 527, 749.
 Claypole, E. W. 1900 A, 247.
 Cope, E. D. 1891 N, 9.
 Dean, B. 1900 A, 22 et seq.
 1901 C, 113.
 Eastman, C. R. 1903 E, 573.
 1907 B, 23, 27, 31.
 1908 A, 69, 74.
 Gaskell, W. H. 1908 A, 531.
 Huene, F. 1926 A, 260.
 Jaekel, O. 1903 D, 41.
 Jordan, D. S. 1905 A, i, 575; ii, 584.
 1907 B, 759.
 1923 A, 86.
 Kemna, A. 1903 A, 348, 371.

- Kiaer, J. 1924 A, 114, 115 (Osteostraci); 117 (Cephalaspidomorphi).
 1928 A, 117, 124 ("cephalaspids").
 Koken, E. 1899 B, 172 (Aspidocephali).
 Lankester, E. R. 1868 A, 14.
 1870 C, 33, 62.
 Parker and Haswell 1897 A, 244.
 Patten, W. 1902 A, 389 (Peltacephalata).
 1903 D, 28 (Peltacephalata).
 Pompeckj, J. F. 1913 A, 1113.
 Regan, C. T. 1904 A, 340, 344.
 1923 B, 458.
 Rosén, N. 1916 A, 14, 30.
 Schlosser, M. 1917 A, 132, 133.
 Stensiö, E. A. 1927 A, 16.
 Stromer, E. 1920 A, 11, 12.
 Traquair, R. H. 1900 C, 504.
 Woodward, A. S. 1922 C, 57.
 Woodward, H. 1878 A, 7.
 1920 D, 31.
 Zittel and Koken 1911 A, 33.
 Zittel and Schlosser 1923 A, 33.
 Zittel and Woodward 1902 A, 54 (Aspidocephali).

CEPHALASPIDÆ Owen.

- Owen, R. 1846 E, 50.
 Hay, O. P. 1902 A, 340.
 Abel, O. 1919 A, 73.
 Agassiz, L. 1844 D, 142 ("cephalaspides").
 Arltdt, T. 1907 D, 644.
 Bridge, T. W. 1904 A, 528.
 Bronn, H. G. 1849 A, 780, seq. (Cephalaspides).
 Carus, V. 1875 A, 596.
 Dean, B. 1901 C, 110 ("cephalaspids").
 Dean, Gudger, Henn 1923 A, 663.
 Eastman, C. R. 1904 C, 143.
 1906 D, 3.
 1907 B, 23.
 Fitzinger, L. J. 1873 A, 52 (Cephalaspides).
 Gaskell, W. H. 1901 A, 267 (Cephalaspida).
 Gebhardt, F. A. M. W. 1907 A, 73, 79 ("cephalaspiden").
 Goodrich, E. S. 1904 A, 493.
 1909 A, 203.
 Gregory, W. K. 1915 D, 341.

- Heckel, J. 1851 A, 219 ("cephalaspiden").
 Hilzheimer, M. 1913 A, 471.
 Hoernes, R. 1886 A, 548.
 Howes, G. B. 1902 A, 525 ("cephalaspicians").
 Huxley, T. H. 1858 D, 503, 506, pl. xiv.
 Jaekel, O. 1902 A, 105 ("cephalaspiden").
 1903 D, 53 ("cephalaspiden").
 1907 A, 185 ("cephalaspiden").
 1911 A, 33 ("cephalaspiden"); 34 (suborder Cephalaspidi).
 1913 A, 85 ("cephalaspiden").
 1919 A, 83 ("cephalaspiden").
 1921 A, 226 ("cephalaspiden").
 1925 B, 168 ("cephalaspiden").
 1926 A, 168 ("cephalaspiden").
 Jordan, D. S. 1907 B, 759.
 1923 A, 86.
 Kemna, A. 1903 A, 347 ("céphalaspides").
 Kiaer, J. 1924 A, *passim*, fig. 41.
 Koken, E. 1899 B, 173.

- Lankester, E. R. 1868 A, 1.
 1870 C, 62.
 1897 A, 45.
- Lütken, C. 1871 A, 294 ("céphalaspides").
- Moodie, R. L. 1928 A, 348.
- Patten, W. 1894 A, 435.
 1903 B, 827, 841.
 1903 D, 15.
 1912 A, 358.
- Pompeckj, J. F. 1913 A, 1115.
- Powrie, J. 1870 A, 299.
- Raymond, P. E. 1925 A, 434 (Cephalaspida).
- Regan, C. T. 1904 A, 344.
- Schlosser, M. 1917 A, 132 ("cephalaspiden").
- Simpson, G. G. 1925 D, 289.
- Steinmann, G. 1907 A, 418.
 1927 A, 80 ("cephalaspiden").
- Stensiö, E. A. 1925 B, 161 ("cephalaspids").
- Stetson, H. C. 1928 A, 228 ("cephalaspids").
- Traquair, R. H. 1880 A, 147, 152.
- Trouessart, E. L. 1906 A, 212.
- Wiman, C. 1918 B, 91 ("cephalaspiden").
- Woodward, H. 1878 A, 23.
- Zittel and Koken 1911 A, 33.
- Zittel and Schlosser 1923 A, 34.
- Zittel and Woodward 1902 A, 54.

CEPHALASPIS Agassiz. Type *C. lyelli* Agassiz.

- Hay, O. P. 1902 A, 341.
- Abel, O. 1907 D, (159).
 1912 F, 432, 476, 664.
 1919 A, 74, figs. 36, 37.
 1920 A, 321, fig. 509.
- Adams, L. A. 1919 A, 121.
- Agassiz, L. 1835 B, 346.
 1839 A, 589, pl. i, fig. 1; pl. ii, figs. 1-9.
 1844 C, 269.
- Arlt, T. 1923 A, 482.
- Bordage, E. 1892 A, 333.
- Bridge, T. W. 1904 A, 529; figs. 318, 319.
- Bronn, H. G. 1848 A, 213.
 1849 A, 656.
- Claypole, E. W. 1896 B, 356.
 1900 A, 246.
- Cunningham, J. T. 1912 A, 251.
- Davis, J. W. 1880 C, 67.
- Dean, B. 1909 B, 817.
- Dean, Gudger, Henn 1923 A, 663.
- Deeke, W. 1913 A, 88.
- Dollo, L. 1910 A, 390.
- Eastman, C. R. 1901 C, 328.
 1902 C, 506.
 1903 E, 573.
 1904 C, 141.
 1904 F, 703.
 1905 A, 40, fig. 2.
 1908 A, 58, 74.
 1908 B, 31, fig. 5.
- Frech, F. 1897 A, 123.
- Gaskell, W. H. 1895 A, 36.
 1908 A, 109, 521.
 1910 A, 11.
- Gaudry, A. 1896 A, 169, fig. 149.
- Goodrich, E. S. 1904 A, 493.
 1909 A, 201, figs. 173, 174.
- Gregory, W. K. 1915 D, 319.
- Heilprin, A. 1887 A, 149, 301.
- Huxley, T. H. 1858 D, 502.
 1861 D, 458.
 1861 E, 420.
- Jaekel, O. 1903 E, 90, figs. 3, 4.
 1911 A, 35, fig. 21.
 1926 A, 166.
- Kemna, A. 1903 A, 343, 345, fig. 12.
- Kiaer, J. 1924 A, 96, fig. 41.
- Lankester, E. R. 1864 C, 442.
 1864 D, 292.
 1865 B, 517.
 1868 A, 14, fig. 4.
 1870 C, 43.
- Lankester, E. R. 1897 A, 45.
 1905 A, 258, figs. 186, 187.
- Leriche, M. 1906 C, 37.
- Lucas, F. A. 1901 J, 24, fig. 4.
- Lütken, C. 1868 C.
- MacBride, E. W. 1910 A, 17.
- McMurrich, J. P. 1901 A, 406.
- Mantell, G. A. 1844 A, 645.
- Meek, A. 1916 A, 34.
- Moodie, R. L. 1928 A, 349.
- Murchison, R. T. 1854 A, 252, pl. xxvii.
- Osborn, H. F. 1905 N, 235.
 1916 E, 608.
 1917 B, 175.
- Owen, R. 1866 A, 197.
- Patten, W. 1894 A, 436.
 1902 A, 379, 389.
 1902 B, 181.
 1903 B, 829, pls. i, ii; text-figs. 5-7, 10.
 1903 C, 488.
 1903 D.
 1904 A, 113.
 1912 A, 302, 343, 350, figs. 232, 234.
- Pompeckj, J. F. 1913 A, 1113, fig. 10.
- Powrie, J. 1861 A, 137, 189, fig.
 1870 A, 284.
- Regan, C. T. 1904 A, 345.
- Steinmann, G. 1908 A, 204.
- Stensiö, E. A. 1927 A, 316, 326, pls. i-xii, xvi-xl, xliii, lxi-xcix, cv-cxii.
- Traquair, R. H. 1899 B, 591, pl.
 1900 C, 504.
- Trouessart, E. L. 1906 A, 213.
- Wiman, C. 1918 B, 92.
- Woodward, A. S. 1906 C, 268, fig. 2.
 1910 D, 31.
 1920 D, 31, fig. 4.
 1922 C, 57, fig. 53.
 1925 A, 124.
- Woodward, H. 1878 A, 6, pl. i, fig. 4; text-figs. 7, 9.
- Zittel and Koken 1911 A, 33.
- Zittel and Schlosser 1923 A, 34, figs. 41-43.
- Zittel and Woodward 1902 A, 54.
- Cephalaspis campbelltonensis Whiteaves.**
- Hay, O. P. 1902 A, 341.
- Eastman, C. R. 1907 B, 12.
 1908 A, 275.
- Jaekel, O. 1895 C, 161 (*C. campbelltonensis*, *C. whiteavesi*).
- Lambe, L. M. 1904 C, 15, 33, 40.

Patten, W. 1902 B, 186.
 Whiteaves, J. F. 1907 B, 259.
 Lower Devonian; New Brunswick.

Cephalaspis dawsoni Lankester.

Hay, O. P. 1902 A, 341.
 Barkas, W. J. 1874 D, 549.
 Dawson, J. W. 1870 B, 271 ("Cephalaspis").
 Eastman, C. R. 1907 B, 13.
 1908 A, 275.
 Lambe, L. M. 1904 C, 14, 15, 33, 40.
 Lankester, E. R. 1870 D, 223.
 Lower Devonian; Quebec.

Cephalaspis jexi Traquair.

Hay, O. P. 1902 A, 341.
 Eastman, C. R. 1907 B, 13.
 Lambe, L. M. 1904 C, 15, 33, 40.
 Whiteaves, J. F. 1907 B, 260.
 Lower Devonian; New Brunswick.

Cephalaspis laticeps Traquair.

Hay, O. P. 1902 A, 341.
 Clarke, J. M. 1913 A, 113.
 Eastman, C. R. 1907 B, 16.
 1908 A, 280.
 Lambe, L. M. 1904 C, 16, 34, 40.
 1912 A, 4.
 Whiteaves, J. F. 1907 B, 248.
 Upper Devonian (Scaumenac); Quebec.

Cephalaspis sp. indet.

Ami, H. M. 1901 B, 309. Lower Devonian (Knoidart); Nova Scotia.
 Eastman, C. R. 1907 B, 13. Lower Devonian (Campbelltown); Nova Scotia.
 1908 A, 275. Lower Devonian (Campbelltown); Nova Scotia.
 Twenhofel, W. H. 1913 A, 303. Lower Devonian (Knoidart); Nova Scotia.
 Whiteaves, J. F. 1907 B, 261. Lower Devonian (Campbelltown); Nova Scotia.

Subclass AZYGOSTEI Hay.

Hay, O. P. 1902 A, 341.
 Dean, B. 1902 C, 703.

Jordan, D. S. 1903 A, 136.
 1923 A, 86.

Superorder PLACODERMI M'Coy.

M'Coy (Ann. Mag. Nat. Hist., ser. 2, vol. ii, 1848, 6) included in this group *Bothriolepis*, *Asterolepis*, *Psammosteus*, *Chelyphorus*, and *Cocosteus*; and expressly excludes *Cephalaspis*. On page 278 of the same volume he includes *Pterichthys*, *Pamphractus*, *Polyphractus*, *Cocosteus*, *Asterolepis*, *Bothriolepis* and *Psammosteus*.

Hay, O. P. 1902 A, 342.
 Abel, O. 1927 B, 314, figs. 1-3 ("panzerfische").
 Adams, L. A. 1919 A, 120.
 Allis, E. P. 1905 A, 492.
 Arltdt, T. 1907 D, 674.
 1923 A, 481 ("panzerfische").
 Carus, V. 1875 A, 596 (Placodermata).
 Cope, E. D. 1880 U, 150 ("placodermes").
 1891 B, 455 (Placodermata).
 Dean, B. 1901 A, 87 ("placodermes").
 1912 A, 226.
 1916 A ("fishes").
 Dean, Gudger, Henn 1923 A, 592, 665.
 Depéret, C. 1907 B ("placodermes").
 Eastman, C. R. 1901 C, 329 (Placodermata).
 1906 D, 2 (Placodermata).
 1907 B, 233.

Eastman, C. R. 1908 A, 160.
 1917 A, 244.
 Filhol, H. 1889 A, 224 ("placodermes").
 Gebhardt, F. A. M. W. 1907 A, 72 ("placodermen").
 Hilzheimer, M. 1913 A, 471.
 Hoffmann, G. 1916 A, 491 ("panzerfische").
 Hussakof, L. 1906 A, 128 (Placodermata).
 Hussakof and Bryant 1919 A, 22 (Placodermata).
 Moodie, R. L. 1926 A, 76.
 Plate, L. 1926 A, 44 ("placodermen").
 Pompeckj, J. F. 1913 A, 1110.
 1926 A, 71 ("placodermen").
 Regan, C. T. 1904 A, 330, 331, 340.
 Schlosser, M. 1917 A, 146 ("placodermen").
 Steinmann, G. 1907 A, 416.
 Stromer, E. 1920 A, 9.
 Traquair, R. H. 1880 A, 152, 158 (Placodermata).
 Weidenreich, F. 1922 A, 44 ("placodermen").
 Woodward, H. 1878 A, 19, 22.
 Zittel and Koken 1911 A, 26.
 Zittel and Schlosser 1923 A, 26.

Order ANTIARCHA Cope.

Hay, O. P. 1902 A, 342.
 Abel, O. 1920 A, 323 (Antiarchi).
 Andreae, A. 1901 B, 507.
 Arltdt, T. 1907 D, 282.
 1912 A, 648 (Antiarchi).
 1923 A, 482 ("antiarchen").
 Barrell, J. 1915 B, 402.
 Bridge, T. W. 1904 A, 532 (Antiarchi).
 Cope, E. D. 1885 BB, 63.
 1891 N, 9.

Dean, B. 1900 A, 22, seq.
 1901 C, 113.
 Eastman, C. R. 1907 B, 23, 32, 225.
 1908 A, 56, 69, 74 (Antiarchi).
 Gaskell, W. H. 1908 A, 29, 326, 343 (Antiarchi).
 Goodrich, E. S. 1909 A, 206 (Pterichthyomorphi).
 Gregory, W. K. 1915 D, 318.
 Huene, F. 1926 A, 260.
 Hussakof, L. 1906 A, 129.
 Hussakof and Bryant 1919 A, 22 (Antiarchi).

- Jaekel, O. 1902 A, 103 (*Temnauehenia*).
 1903 B, 12 ("placodermen").
 1903 D, 41 ("placodermen").
 1903 F, 37 ("placodermen").
 1906 A, 28 ("placodermen").
 1906 B, 76 ("placodermen").
 1906 C, 157 ("placodermen").
 1906 D, 180 ("placodermen").
 1907 A, 170 ("placodermen").
 1909 A, 198 ("placodermen").
 1911 A, 37, 44 (*Placodermata*).
 1911 A, 38 (*Asterolepida*); 47 (*Coccostei*).
 1919 A, 73 ("placodermen").
 1921 A, 233 ("placodermen").
 1925 B, 170 ("placodermen").
 1926 A, 172 ("placodermen").
 1926 D, 71.
 1927 B, 332 ("placodermen").
 Jordan, D. S. 1905 A, I, 576, 581; II, 557, 586.
 1907 B, 759.
 1923 A, 86.
 Kemna, A. 1903 A, 348 (*Antiarchi*).
 1904 A, 24 ("placodermes").
 Kiaer, J. 1924 A, 107, 114, 123 (*Antiarchi*); 117 (*Pterichthyomorphi*).
 Kingsley, J. S. 1885 A, 92.
 Koken, E. 1893 B, 143, 172 ("placodermen").
 Leunis and Ludwig 1883 A, 777 (*Placodermata*).
 Lütken, C. 1868 C.
 1871 A, 294 ("placodermes").
 Osborn, H. F. 1917 B, 165, 167, fig. (*Antiarchi*).
 Osburn, R. C. 1907 B, 173.
 Parker and Haswell 1897 A, 244.
 Patten, W. 1912 A, 367.
 Pompeckj, J. F. 1913 A, 1110, 1115.
 Regan, C. T. 1923 B, 458 (*Asterolepida*).
 Rosén, N. 1916 A, 11 (*Antiarchi*).
 Schlosser, M. 1917 A, 133 (*Antiarchi*).
 Selmalhausen, J. J. 1913 A, 76.
 Simpson, G. G. 1925 D, 289 (*Antiarchi*).
 1926 J, 173.
 Stensiö, E. A. 1925 B, 189.
 Stromer, E. 1920 A, 12, 16 (*Antiarchi*).
 Traquair, R. H. 1900 C, 504 (*Asterolepida*).
 Woodward, A. S. 1898 B, 12.
 1920 D, 33 (*Antiarchi*).
 Zittel and Koken 1911 A, 35.
 Zittel and Schlosser 1923 A, 36 (*Antiarchi*).
 Zittel and Woodward 1902 A, 56.

ASTROLEPIDÆ Traquair.

- Traquair, R. H.* 1888 C, 485.
 Unless otherwise indicated the authors, as quoted, write the name of this family *Asterolepidæ*.
 Hay, O. P. 1902 A, 342.
 Abel, O. 1907 D, (167).
 1908 D, (211), ("asterolepiden").
 1912 F, 596 ("asterolepiden").
 1919 A, 88.
 Barrell, J. 1915 B, 393.
 Bridge, T. W. 1904 A, 534.
 Dean, B. 1902 C, 703 ("pterichthyids").
 1912 A, 226 ("pterichthyids").
 Dean, Gudger, Henn 1923 A, 664.
 Eastman, C. R. 1902 C, 507 ("Pterichthyidæ").
 1904 C, 141, 143.
 1906 D, 3.
 1907 B, 23, 33, 225.
 1908 A, 56, 75 ("asterolepids").
 Gebhardt, F. A. M. W. 1907 A, 73 ("asterolepiden").
 Goodrich, E. S. 1909 A, 209.
 Hoernes, R. 1886 A, 546 (*Pterichthyidæ*).
 Hoffmann, G. 1911 A, 285 ("asterolepiden").
 Hussakof, L. 1906 A, 131.
 Jaekel, O. 1902 A, 106, 113 ("asterolepiden").
 1903 D, 41, 58 ("asterolepiden").
 Jaekel, O. 1903 F, 39 ("pterichthyiden").
 1906 D, 187 ("asterolepiden").
 1911 A, 37 ("asterolepiden"; *Pterichthy*).
 1919 A, 101 ("asterolepiden").
 1921 A, 226 ("asterolepiden").
 1925 B, 166 ("asterolepiden").
 1926 A, 168 ("asterolepiden").
 Jordan, D. S. 1905 A, I, 576; II, 557.
 1907 B, 759.
 1923 A, 86.
 Kemna, A. 1904 A, 52 ("astérolépidés").
 Kiaer, J. 1924 A, 116 (*Asterolepididæ*); 117 (*Pterichthyidæ*).
 Lankester, E. R. 1897 A, 45.
 Osborn, H. F. 1902 H, 749 ("asterolepids").
 Patten, W. 1902 A, 392 (*Pterichthyidæ*).
 1902 B, 180 (*Pterichthyidæ*).
 1903 D, 29.
 Pompeckj, J. F. 1913 A, 1115.
 Regan, C. T. 1904 A, 340.
 Schlosser, M. 1917 A, 133 ("asterolepiden").
 Steinmann, G. 1907 A, 418.
 Weidenreich, F. 1922 A, 44 (*Asterolepis*).
 Zittel and Koken 1911 A, 37.
 Zittel and Schlosser 1923 A, 36.
 Zittel and Woodward 1902 A, 56.

ASTROLEPIS Eichwald. Type *A. ornata* Eichwald.

- Unless otherwise indicated, the authors, as quoted, write this name *Asterolepis*.
 Hay, O. P. 1902 A, 342.
 Abel, O. 1912 F, 598.
 1919 A, 90, fig. 51.
 1927 A, (31).
 Arltdt, T. 1923 A, 482.
 Barkas, W. J. 1874 D, 549.
 Bronn, H. G. 1879 A, 121.
 Chapman, F. 1916 A, 211.
 Darton, N. H. 1906 A, 563.
 Delafontaine, M. 1877 A, 267.
 Dean, Gudger, Henn 1923 A, 664.
 Eastman, C. R. 1903 E, 574.
 1907 B, 39, 225.
 1908 A, 82.
 Eichwald, E. 1840 B, 425.
 Freeh, F. 1897 A, 82.
 Gaskell, W. H. 1895 A, 36 (*Asterolepis*).
 1908 A, 326, 342.
 Gebhardt, F. A. M. W. 1907 A, 81.
 Goodrich, E. S. 1909 A, 506.

- Heilprin, A. 1887 A, 302.
 Hoffmann, G. 1909 A, 491, figs. 1-3.
 1911 A, 285.
 Hussakof, L. 1906 A, 134.
 1908 C, 311.
 Jaekel, O. 1902 A, 110.
 1903 D, 45, figs. 3-5, 7, 8.
 1903 E, 86.
 1903 F, 35.
 1919 A, 102, fig. 15.
 1926 A, 164, 166.
 Jordan, D. S. 1919 B, 206 (*Astrolepis*).
 Miller, J. 1851 A, 92.
 1869 A, 384.
 Pompeckj, J. F. 1913 A, 1115.
 Traquair, R. H. 1880 A, 155.
 1904 A, 91.
 Woodward, A. S. 1900 H, 1.
 1915 B, lxiv.

PTERICHTHYODES Bleeker. Type *Pterichthys milleri* Agassiz.

- Unless otherwise indicated the authors, as cited, use the name *Pterichthys*.
 Bleeker, P. 1839, Tentamen, 11 (*Pterichthyodes*).
 Hay, O. P. 1902 A, 343 (*Pterichthyodes*).
 Abel, O. 1907 D (160).
 1908 E, 413, fig. 5.
 1909 D, (226).
 1912 B, 76, fig. 26.
 1912 F, 445, 598.
 1919 A, 88, figs. 49, 50.
 1920 A, 323, fig. 513.
 Agassiz, L. 1844 C, 269.
 Allis, E. P. 1905 A, 493.
 Arldt, T. 1923 A, 482.
 Barkas, W. J. 1874 D, 552.
 Böker, II. 1927 A, 36.
 Bordage, E. 1892 A, 333, fig. 4.
 Bridge, T. W. 1904 A, 533.
 Bronn, H. G. 1848 B, 1051.
 1849 A, 656.
 Cunningham, J. T. 1912 A, 250.
 Davis, J. W. 1880 C, 67.
 Dean, Gudger, Henn 1923 A, 664.
 Dcecke, W. 1913 A, 88.
 Delafontaine, M. 1877 A, 268.
 Eastman, C. R. 1898 E, 183.
 1903 E, 574.
 1904 C, 142.
 1905 A, 40, fig. 1.
 1906 A, 141.
 1906 D, 1.
 1907 B, 32, 233.
 1908 A, 57, 75, 76, figs. 9-11.
 Frech, F. 1897 A, 123.
 Gadow, H. 1910 A, 28.
 Gaskell, W. H. 1895 A, 36.
 1908 A, 533.
 Gaudry, A. 1896 A, 19, fig. 25.
 Goodrich, E. S. 1909 A, 208, fig. 161.
 Gregory, W. K. 1922 A, 3.
 Heilprin, A. 1887 A, 149, 301.
 Hoernes, R. 1886 A, 547.
 Hoffmann, G. 1909 A, 491.
 1911 A, 287.
 Hussakof, L. 1906 A, 131.
 Huxley, T. H. 1858 D, 505, 515.
 1861 D, 449, fig. 19.
 Zittel and Koken 1911 A, 38.
 Zittel and Schlosser 1923 A, 38, figs. 48, 49.
 Zittel and Woodward 1902 A, 57.
- Astrolepis clarkei* Eastman.**
Eastman, C. R. 1907 B, 40, pl. vii, figs. 7, 8 (*Asterolepis*).
Eastman, C. R. 1907 B, 13, 225 (*Asterolepis*).
 1908 A, 83, 275 (*Asterolepis*).
Williams and Breger 1916 A, 293, pl. xxii, fig. 19 (*Asterolepis*).
 Lower Devonian (Chapman); Maine.
- Astrolepis incisa* Woodward.**
Woodward, A. S. 1900 H, 6, pl. i, figs. 11-13 (*Asterolepis*).
 Upper Devonian; East Greenland.
- Jaekel, O. 1902 A, 110.
 1903 B, 12.
 1903 D, 41, 56.
 1911 A, 38.
 1919 A, 101 (*Pterichthys*).
 Jordan, D. S. 1903 A, 136.
 1905 A, i, 576; ii, 588 (*Pterichthyodes*).
 1919 B, 209 (*Pterichthyodes*).
 Kemna, A. 1903 A, 343.
 1904 A, 61.
 Kiaer, J. 1924 A, 110.
 Koken, E. 1893 B, 143, 174.
 Koschkaroff, D. N. 1906 A, 298.
 Lankester, E. R. 1897 A, 45.
 1905 A, 252, figs. 183, 184.
 Longnair, —. 1860 A, 263.
 Lucas, F. A. 1901 J, 25, fig. 5.
 Lütken, C. 1868 C.
 MacBride, E. W. 1910 A, 18.
 Mantell, G. A. 1844 A, 646, fig. 135.
 Miller, H. 1851 A, 91.
 1857 A, 98, fig. 57.
 Murchison, R. I. 1841 A, 99.
 1854 A, 251, fig. 47.
 Osborn, H. F. 1905 N, 235.
 1916 E, 606, fig. 14.
 1917 B, 166, 170, fig.
 Patten, W. 1902 A, 379, 389.
 1903 A, 223.
 1903 D.
 1912 A, 343.
 Perrier, E. 1920 A, 272.
 Pompeckj, J. F. 1913 A, 1114, fig. 12.
 Regan, C. T. 1904 A, 34, fig. 4.
 Schuchert, C. 1915 A, 686, fig. 408.
 Schuchert and Levene 1927 A, 267, fig.
 Stromer, E. 1905 D, 315.
 Traquair, R. H. 1880 A, 150, 155.
 1900 C, 504.
 1904 A, 94.
 Woodward, A. S. 1897 C, 379.
 1906 C, 269, fig. 3.
 1915 B, lxiv.
 1920 D, 33.
 1922 C, 59, fig. 54.
 Woodward, H. 1878 A, 14, pl. i, fig. 5.

Zittel and Koken 1911 A, 37.
Zittel and Schlosser 1923 A, 37, figs. 46, 47.

BOTHRIOLEPIS Eichwald.

Hay, O. P. 1902 A, 343.
Abel, O. 1907 D, (166).
1912 F, 561, 598.
Adams, L. A. 1919 A, 122, fig. 3.
Allis, E. P. 1905 A, 493.
Barkas, W. J. 1874 D, 548 (*Stenacanthus*); 549 (*Bothriolepis*).
Bordage, E. 1892 A, 334, fig. 4.
Bromm, H. G. 1848 A, 172.
1849 A, 655.
Clarke, J. M. 1911 A, 128.
Claypole, E. W. 1883 C, 281.
Dean, B. 1908 A, 202.
1912 A, 226.
Dean, Gudger, Henn 1923 A, 664.
Eastman, C. R. 1903 E, 574.
1906 A, 141.
1907 B, 32, 42.
1908 A, 79, 83.
Eichwald, E. 1840 B, 425 (*Bothryolepis*).
Frech, F. 1897 A, 123.
Gaskell, W. H. 1895 A, 36.
1908 A, 520.
1910 A, 12.
Gebhardt, F. A. M. W. 1907 A, 81.
Goodrich, E. S. 1909 A, 206, 209.
Gregory, W. K. 1915 D, 319.
1917 A, 378, fig. 5.
1922 A, 3.
Heilprin, A. 1887 A, 302.
Hoffmann, G. 1909 A, 492.
1911 A, 285, figs. 24, 25.
Hussakof, L. 1906 A, 131, 143.
Hussakof and Bryant 1919 A, 23.
Huxley, T. H. 1861 D, 436.
Jackel, O. 1903 D, 48.
1926 A, 164.
Kemna, A. 1904 A, 19.
Kingsley, J. S. 1925 A, 90, fig. 94.
Koken, E. 1893 B, 175.
Lambe, L. M. 1904 C, 16.
Lewis, F. T. 1907 A, 657.
Lull, R. S. 1917 B, 469.
Moodie, R. L. 1915 I, 141, 165, figs. 1, 2.
1920 D, 14.
1923 B, 292.
1926 A, 76, 84.
Osborn, H. F. 1916 E, 603, fig. 10.
1917 B, 165, 167, 170, fig.
Owen, R. 1866 A, 378.
Patten, W. 1903 A, 223.
1903 C, 488.
1903 D.
1904 A, 113, figs. 1-6.
1905 A, 297.
1905 B, 140.
1906 A, 283.
Pompeckj, J. F. 1913 A, 1110, 1115.
Roberts, G. E. 1863 A, 389.
Stensiö, E. A. 1921 A, 44.
Traquair, R. H. 1904 A, 107.
1906 A, 119, pls. xxvii-xxxi.
1908 B, 326.

Zittel and Woodward 1902 A, 56.

No American species of this genus has yet been discovered.

Type *B. prisca* Eichwald.

Watson and Day 1916 A, 37.
Wiman, C. 1918 B, 90.
Woodward, A. S. 1897 C, 379.
1900 H, 9.
1913 B, 82, pl. x, fig. 3.
1915 B, lxiv.
1917 G, lxxx.
1920 D, 34.
Zittel and Koken 1912 A, 39.
Zittel and Schlosser 1923 A, 39.
Zittel and Woodward 1902 A, 58.

Bothriolepis canadensis Whiteaves.

Hay, O. P. 1902 A, 343.
Abel, O. 1907 D, (160, 166).
1912 F, 598.
1919 A, 91, fig. 52.
Bridge, T. W. 1904 A, 534.
Clarke, J. M. 1913 A, 113, 2 figs.
Claypole, E. W. 1883 C, 278 (*Pterichthys*).
Cope, E. D. 1885 BB, 63.
1891 N, 9, fig. 2.
Eastman, C. R. 1904 B, 254.
1907 B, 16, 43, text-figs. 10-12.
1908 A, 84, 280, figs. 12-14.
1917 A, 240.
Goodrich, E. S. 1909 A, 206, fig. 180.
Hoffmann, G. 1911 A, 300, text-figs. 16, 23.
1916 A, 491, figs. 1-4.
Hussakof, L. 1906 A, 131, fig. 14.
Hussakof and Bryant 1919 A, 23.
Jaekel, O. 1903 D, 42, 57.
Jordan, D. S. 1908 B, 807.
Kiaer, J. 1915 A, 41, 42.
Lambe, L. M. 1904 C, 14, 16, 34, 40.
1912 A, 4.
Moodie, R. L. 1923 B, 320, pl. lxiv.
1926 A, 67, pl. vi, text-fig. 1.
Patten, W. 1905 B, 140.
1912 A, 483, figs. 247-257.
Rogers, A. F. 1924 A, 546.
Stromer, E. 1912 A, 40, fig. 52.
Traquair, R. H. 1904 A, 112, figs. 57-59.
Whiteaves, J. F. 1907 B, 249, pls. i, ii.
Woodward, A. S. 1900 H, 9.
Upper Devonian (Scaumenac); Quebec.

Bothriolepis coloradensis Eastman.

Eastman, C. R. 1904 B, 255, figs. 1, 4.
Cross, W. 1905 C, 4 ("Bothriolepis." This species?).
1910 A, 5.
Eastman, C. R. 1907 B, 20, 53.
1908 A, 94, 285.
1915 A, 280.
1917 A, 240.
Upper Devonian (Elbert); Colorado.

Bothriolepis hydrophila Agassiz.

Agassiz, L. 1844 A, 5, 21, pl. iv, figs. 4-7 (*Pamphractus hydrophilus*); 21 (*P. andersoni*); 134, pl. xxxi, fig. 6 (*Homothorax flemmingii*).

- Kiaer, J. 1915 A, 39, 41, 54, pl. vii, figs. 1-6 (This species?).
- Miller, H. 1848, in Egerton, P. G., 1848 A, 312, 314 (Pterichthys).
- Powrie, J. 1862 A, 435 (Pterichthys).
- Traquair, R. H. 1888 B, 510.
1888 C, 500, pl. xviii, figs. 4, 5.
- Woodward, A. S. 1891 A, 230, pl. vi, fig. 9, text-figs. 35.
Upper Devonian (Old Red); Scotland.
Upper Devonian?; Ellesmere Land.
- Bothriolepis leidyi** Newb.
- Newberry, J. S. 1889 A, 109, 111, pl. xviii, fig. 2; pl. xx, figs. 1-5.
- Hay, O. P. 1902 A, 344 (B. nitida part).
- Clarke and Ruedmann 1903 A, 765 (This species?).
- Claypole, E. W. 1903 A, 321.
- Cross, W. 1905 C, 4 ("Bothriolepis." This species?).
- Eastman, C. R. 1904 B, 257 (This species?).
1907 B, 50 (Syn. of B. nitida).
Upper Devonian (Catskill); Pennsylvania, New York.
- Bothriolepis minor** Newb.
- Hay, O. P. 1902 A, 343.
- Clarke and Ruedmann 1903 A, 965.
- Claypole, E. W. 1903 A, 321.
- Eastman, C. R. 1907 B, 20, 52; fig. 13.
1908 A, 93, 287, 289.
- Hussakof, L. 1908 A, 5.
Upper Devonian (Chemung); Pennsylvania: (Catskill); New York.
- Bothriolepis nitida** (Leidy).
- Hay, O. P. 1902 A, 344.
- Barkas, W. J. 1874 D, 548 (Stenacanthus).
- Claypole, E. W. 1903 A, 320 (Stenacanthus niticans).
- Eastman, C. R. 1907 B, 22, 50; pl. iii, fig. 4; pl. vii, fig. 1.
1908 A, 92, 289.
1915 A, 280.
1917 A, 240.
- Hussakof, L. 1908 A, 5.
- Hussakof and Bryant 1919 A, 23.
Upper Devonian (Chemung, Catskill); Pennsylvania, New York.
- Bothriolepis traquairi** Bryant.
- Bryant, W. L. 1924 A, 54, pls. i, ii.
Upper Devonian (Scaumenac); Quebec.
- Bothriolepis** sp. indet.
- Abel, O. 1926 B, 217. Upper Devonian, Grand Canyon, Arizona.
- Cross, W. 1905 A, 3. Devonian (Elbert); Colorado.
- Kiaer, J. 1915 A, 43 (This genus?). Upper Devonian; Ellesmere Land.
- Schuchert, C. 1918 A, 361. Devonian; Arizona.

Order COCCOSTEOMORPHI Goodrich.

- Goodrich, E. S. 1909 A, 258.
Unless otherwise indicated, the authors, as cited, apply to this group the name Arthrodira.
- Hay, O. P. 1902 A, 344.
- Abel, O. 1912 F, 439, 440, 487.
1919 A, 92.
1920 A, 323.
- Adams, L. A. 1919 A, 124.
- Arlt, T. 1907 D, 282.
1912 A, 648.
1923 A, 482 ("arthrodiren").
- Barrell, J. 1915 B, 402.
- Berry, E. W. 1925 A, 358.
- Branson, E. B. 1918 A, 89.
- Bridge, T. W. 1904 A, 535, 731.
- Bryant, W. L. 1926 B, 257.
- Cope, E. D. 1891 N, 14.
- Dean, B. 1900 A, 22 (Subclass of Arthrognathi).
1901 C, 110 et seq. (Subclass of Arthrognathi).
1907 A, 46 ("arthrodires").
1908 A, 202.
1909 C, 282.
1914 A, 59.
- Dean, Gudger, Henn 1923 A, 589, 611, 664, 665.
- Dollo, L. 1906 B, 136 ("arthrodères").
1907 B, 97, 106 ("arthrodères").
- Eastman, C. R. 1900 G, 287.
1901 C, 329 ("arthrodires").
1904 C, 141 ("arthrodires").
1905 A, 46, 138 ("arthrodires").
1906 A, 131, 138 ("arthrodires").
- Eastman, C. R. 1906 B, 290 ("arthrodires").
1906 D, 1.
1907 A, 211 ("arthrodires").
1907 B, 23, 89, 225.
1908 A, 69, 157, 158.
1917 A, 244 ("arthrodires").
- Goodrich, E. S. 1904 A, 494 (Arthrodira).
- Gregory, W. K. 1907 D, 447.
1915 D, 318, 342.
1920 A, 219.
- Hennig, E. 1920 B, 113.
- Howes, G. B. 1902 A, 525.
- Huene, F. 1926 A, 260.
- Hussakof, L. 1906 A, 105.
1908 C, 312.
1911 B, 123.
- Hyde, J. E. 1926 A, 501 ("arthrodires").
- Jaekel, O. 1903 D, 57.
1911 A, 47 (Coccostei).
1919 A, 75.
1925 B, 167.
1927 B, 332, 337.
- Jordan, D. S. 1903 A, 136.
1905 A, i, 581, 585, 612; ii, 557.
1907 B, 238, 245, 760.
1923 A, 88.
- Kemna, A. 1904 A, 65 ("arthrodires").
- Keyes, C. A. 1922 A, pl. iii.
- Kiaer, J. 1924 A, 123.
1928 A, 130 ("arthrodires").
- Kingsley, J. S. 1925 A, 118.
- Meek, A. 1916 A, 35.
- Moodie, R. L. 1915 I, 138 ("arthrodires").

- Moodie, R. L. 1926 A, 73, 80.
 Osborn, H. F. 1916 E, 601 ("arthrodires").
 1917 B, 166, 167, 292, fig.
 Osburn, R. C. 1907 B, 173.
 Patten, W. 1912 A, 386, 388.
 Pompeckj, J. F. 1913 A, 1116, 1119.
 Regan, C. T. 1923 B, 458.
 Reynolds, S. H. 1897 A, 70.
 Sauvage, H. E. 1899 B, 86 (Arthropodira).
 Schlosser, M. 1917 A, 132, 133, 146.
 Schuchert, C. 1915 A, 688.
 Sewertzoff, A. N. 1923 B.
 Simpson, G. G. 1926 J, 173.
 Stensiö, E. A. 1925 A, 176, 182, 223 (arthrodires").
 Stensiö, E. A. 1925 B, 164, 187 ("arthrodireids").
 1927 A, 32.
 Stromer, E. 1912 A, 35, 48.
 1920 A, 15, 16.
 Thevenin, A. 1910 A, 35 ("arthrodires").
 Williston, S. W. 1912 E, 258.
 Woodward, A. S. 1898 B, 64.
 1915 B, lxx.
 1920 D, 34.
 1922 B, 30.
 1922 C, 79.
 Zittel and Koken 1911 A, 78.
 Zittel and Schlosser 1923 A, 39.
 Zittel and Woodward 1902 A, 58.

Suborder MACROPETALICHTHYIFORMES, new name.

- Dean, B. 1900 A, 22 (Anarthrodira).
 1901 C, 110, seq. (Anarthrodira).
 1909 C, 281 (Anarthrodira).
 Eastman, C. R. 1900 G, 287 (Anarthrodira).
 Goodrich, E. S. 1909 A, 262 (Anarthrodira).
 Gregory, W. K. 1907 D, 447 (Anarthrodira).
 Hussakof, L. 1906 A, 135 (Anarthrodira).
 Jaekel, O. 1903 D, 58 (Anarthrodira).
 Jordan, D. S. 1905 A, i, 584; ii, 557 (Anarthrodira).
 Pompeckj, J. F. 1913 A, 1119 (Anarthrodira).

MACROPETALICHTHYIDÆ Eastman.

- Hay, O. P. 1902 A, 349.
 Dean, B. 1901 C, 120 (Subcl. Anarthrodira; order Stegothalamini).
 Eastman, C. R. 1907 B, 23, 99.
 1908 A, 167.
 Gebhardt, F. A. M. W. 1907 A, 73 ("macropetalichthyiden").
 Goodrich, E. S. 1909 A, 262.
 Gregory, W. K. 1907 D, 447.
 Hennig, E. 1907 B, 591.
 Jaekel, O. 1902 A, 112 ("macropetalichthyiden").
 1903 D, 58 ("macropetalichthyiden").
 1903 F, 39 ("macropetalichthyiden").
 1926 A, 181 ("macropetalichthyiden").
 Jordan, D. S. 1907 B, 760.
 1923 A, 88.
 Stensiö, E. A. 1925 B, 92, 164 ("macropetalichthyids").

MACROPETALICHTHYS Norw. and Owen. Type *M. rhapsoidolabis* Norw. and Owen.

- Hay, O. P. 1902 A, 349.
 Allis, E. P. 1905 A, 491.
 Arldt, T. 1923 A, 482, 493.
 Barkas, W. J. 1874 D, 551.
 Bryant, W. L. 1926 B, 256.
 Dames, W. 1899 G, 556.
 Dean, B. 1900 A, 26.
 1901 B, 108.
 1901 C, 114, et seq.
 1907 A, 48.
 Dean, Gudger, Henn 1923 A, 664.
 Deecke, W. 1913 A, 89.
 Eastman, C. R. 1898 E, 184.
 1900 G, 288.
 1901 C, 329.
 1906 A, 141.
 1906 D, 12.
 1907 B, 100, 193, 231.
 1908 A, 168.
 Gregory, W. K. 1915 D, 320.
 Heilprin, A. 1887 A, 149.
 Hennig, E. 1907 B, 584.
 Hussakof, L. 1906 A, 135.
 1908 C, 312.
 Jaekel, O. 1902 A, 113.
 1911 A, 46, fig. 32.
 1919 A, 75.
 1921 A, 233.
 1926 A, 161.
 1927 B, 336.
 Jordan, D. S. 1923 A, 88.
 Kiaer, J. 1915 A, 15.
 Kayser, E. 1880 B, 678 (Placothorax a syn.).
 Newberry, J. S. 1873 G, 145.
 Pompeckj, J. F. 1913 A, 1118.
 Stensiö, E. A. 1925 B, *passim*.
 Trouessart, E. 1898 B, 7.
 Woodward, A. S. 1890 F, 146.
 1917 G, lxxx.
 Zittel and Koken 1911 A, 83.
 Zittel and Schlosser 1923 A, 43.
 Zittel and Woodward 1902 A, 58.
Macropetalichthys rhapsoidolabis Norw. and Owen.
 Hay, O. P. 1902 A, 349 (*M. rhapsoidolabis*, *M. sullivanti*).
 Bronn, H. G. 1848 C (*Pterichthys norwoodi*, *P. norwoodanus*).
 Claypole, E. W. 1896 B, 354 (*M. sullivanti*).
 1903 A, 312, 319 (*M. rhapsoidolabis*, *M. sullivanti*).
 Dames, W. 1899 G, 556, fig. (*M. sullivanti*).
 Eastman, C. R. 1907 B, 14, 103, 231, pl. ix, fig. 5; pl. xi; text-figs. 19-21.
 1908 A, 168, 278, fig. 24.
 Hussakof, L. 1908 A, 16.
 Hussakof and Bryant 1919 A, 10, 25.
 Jaekel, O. 1926 A, 161-184, figs. 1-3.
 Kiaer, J. 1915 A, 11, 13, fig. 2 (*M. rhapsoidolabis*).

- Lambe, L. M. 1904 C, 16, 34, 42 (M. sullivanii)
(This fish).
Newberry, J. S. 1870 E, 17 (M. sullivanii).
1874 H, 192 (M. sullivanii).
Orton, E. 1878 A, 625, 628 (M. sullivanii).
Stauffer, C. R. 1909 A, 169.
Stensiö, E. A. 1925 B, 91-193, pls. xix-xxviii,
xxx, text-figs. 1-13, 15.
Trouessart, E. 1893 B, 7 (M. rhapsoidolabis,
M. sullivanii).

- Whiteaves, J. F. 1877 A, 319 (M. sullivanii).
Middle Devonian (Columbus and Delaware);
Ohio, Indiana: (Onondaga); New York: De-
vonian; Ontario and James Bay, Canada.

Macropetalichthys schei Kiaer.

- Kiaer, J. 1915 A, 9, pl. i, figs. 1-6; text-figs.
1, 2.
Upper Devonian?; Ellesmere Land.

ASTEROSTEIDÆ A. S. Woodward.

- Hay, O. P. 1902 A, 349.
Dean, B. 1901 C, 121.
Gregory, W. K. 1907 D, 447.

- Jordan, D. S. 1907 B, 760.
1923 A, 88.
Zittel and Koken 1911 A, 84.
Zittel and Schlosser 1923 A, 45.

ASTEROSTEUS Newb. Type *A. stenocephalus* Newb.

- Hay, O. P. 1902 A, 349.
Arlidt, T. 1923 A, 493.
Dean, Gudger, Henn 1923 A, 664.
Eastman, C. R. 1907 B, 112, 193, 225.
Zittel and Woodward 1902 A, 58.

Asterosteus stenocephalus Newb.

- Hay, O. P. 1902 A, 349.
Claypole, E. W. 1903 A, 319.

- Eastman, C. R. 1907 B, 14, 113.
1908 A, 278.
Hussakof, L. 1908 A, 5.
Newberry, J. S. 1874 H, 192.
Orton, E. 1878 A, 626.
Stauffer, C. R. 1909 A, 169.
Zittel and Schlosser 1923 A, 45.
Middle Devonian (Columbus and Delaware);
Ohio: (Onondaga?); New York.

Suborder COCCOSTEIFORMES, new name.

- Dean, B. 1901 C, 120, 122 (Arthrothoraci).
Goodrich, E. S. 1909 A, 261 (Arthrothoraci).
Gregory, W. K. 1907 D, 447 (Arthrothoraci).
Hussakof, L. 1906 A (Arthrothoraci).

- Jaekel, O. 1903 D, 58.
1911 A, 47 (Cocosteii).
Jordan, D. S. 1905 A, i, 586; ii, 557 (Arthro-
thoraci).
1907 B, 760 (Arthrothoraci).

PHYLLOLEPIDÆ A. S. Woodward.

- Hay, O. P. 1902 A, 349.
Jordan, D. S. 1923 A, 89.

- Zittel and Koken 1911 A, 84.
A family of doubtful standing.

GLYPTASPIS Newb. Type *G. verrucosus* Newb.

- Hay, O. P. 1902 A, 349.
Eastman, C. R. 1907 B, 147.
1908 A, 181.
Hussakof, L. 1906 A, 148.
Hussakof and Bryant 1919 A, 92.
Swartz, C. K. 1913 A, 700.
A genus of uncertain relationships.

Glyptaspis eastmani Swartz.

- Swartz, C. K. 1913 A, 700, pl. lxxiii, figs. 1-3.
Hussakof and Eastman 1919 A, 104 (Syn.? of
Holonema rugosum).
Upper Devonian (Jennings); Maryland.

Glyptaspis verrucosa Newb.

- Hay, O. P. 1902 A, 349.
Claypole, E. W. 1896 B, 351 ("Glyptaspis").
1903 A, 320.
Eastman, C. R. 1907 B, 19, 147, 230.
1908 A, 285.
Hussakof, L. 1908 A, 15.
Hussakof and Bryant 1919 A, 103.
Upper Devonian (Cleveland); Ohio.

Glyptaspis sp. indet.

- Branson, E. B. 1922 A, 42, 44, 123, pl. xxxi,
fig. 3. Upper Devonian (Snyder Creek);
Missouri.

PHYLLOLEPIS Agassiz. Type *P. concentrica* Agassiz.

- Hay, O. P. 1902 A, 349.
Barkas, W. J. 1874 D, 552.
Bryant, W. L. 1926 B, 270.
Eastman, C. R. 1907 B, 156.
1908 A, 207.
Hussakof and Bryant 1919 A, 21.
Stensiö, E. A. 1927 A, 329, fig. 91.
Woodward, A. S. 1890 F, 147.
1920 D, 31, fig. 3.
1921 A, 179, fig. 20.

- Zittel and Schlosser 1923 A, 31, fig. 37.
A genus of uncertain position. A. S. Wood-
ward (1921 A, 179) refers it to the *Heteros-*
traci?; Zittel and Schlosser to the *Drepanas-*
pidae.

Phyllolepis delicatula Newb.

- Hay, O. P. 1902 A, 349.
Claypole, E. W. 1903 A, 319.
Eastman, C. R. 1907 B, 21, 157.

Eastman, C. R. 1908 A, 207, 288.

Hussakof, L. 1908 A, 24.

Upper Devonian (Chemung); Pennsylvania.

HOLONEMA Newb. Type *H. rugosum* (Claypole).

Hay, O. P. 1902 A, 350.

Dean, Gudger, Henn 1923 A, 664.

Eastman, C. R. 1908 A, 181, 206.

1908 B, 156.

Traquair, R. H. 1908 B, 324.

Zittel and Koken 1911 A, 84.

Zittel and Schlosser 1923 A, 31.

A genus of uncertain family position.

Holonema abbreviatum (Eastman).

Eastman, C. R. 1907 B, 147, 229, pl. xiii (Glyptaspis).

Eastman, C. R. 1908 A, 282 (Glyptaspis).

Hussakof, L. 1908 A, 15 (Glyptaspis).

Hussakof and Bryant 1919 A, 13, 17, 18, 102, pl. xxxi.

Upper Devonian (Genesee, Portage); New York: (Genesee); Kentucky.

Holonema horridum Cope.

Hay, O. P. 1902 A, 350.

Eastman, C. R. 1907 B, 21, 156.

Phyllolepis elegans Hussakof and Bryant.

Hussakof and Bryant 1919 A, 21, pl. xxxii, fig. 2.
Upper Devonian (Portage); New York.

Eastman, C. R. 1908 A, 206, 288.

Hussakof, L. 1908 A, 23.

Upper Devonian (Chemung); Pennsylvania.

Holonema rugosum (Claypole).

Hay, O. P. 1902 A, 350.

Claypole, E. W. 1903 A, 321.

Eastman, C. R. 1907 B, 21, 156.

1908 A, 206, 288, 289.

Hussakof, L. 1908 A, 23.

Hussakof and Bryant 1919 A, 104, pl. xxxii, fig. 1.

Merrill, G. P. 1907 A, 11 (*H. rugosa*).

Traquair, R. H. 1908 B, 324, fig. 3.

Upper Devonian (Chemung); Pennsylvania,
New York: (Catskill); New York: Middle
Devonian; Wisconsin.

Holonema sp. indet.

Hussakof and Bryant 1919 A, 104. Middle Devonian; Wisconsin.

ACANTHASPIDÆ Woodward.

Woodward, A. S. 1891 F, 3.

Jaekel, O. 1925 B, 168 ("acanthaspiden").

ACANTHASPIS Newb. Type *A. armatus* Newb.

Hay, O. P. 1902 A, 332.

Claypole, E. W. 1903 A, 313.

Eastman, C. R. 1904 C, 141.

1906 D, 17.

1907 B, 117, 193, 225.

1908 A, 144.

Gebhardt, F. A. M. W. 1907 A, 80.

Goodrich, E. S. 1909 A, 261, fig. 231.

Hussakof, L. 1906 A, 132, fig. 16.

Hussakof and Bryant 1919 A, 98.

Jaekel, O. 1903 D, 54.

1907 A, 175.

1926 A, 182.

Kemna, A. 1903 A, 346.

Osborn, H. F. 1917 B, 167.

Pompeckj, J. F. 1913 A, 1119.

Regan, C. T. 1904 A, 342.

Stromer, E. 1905 D, 315.

Woodward, A. S. 1891 F, 3, pls. i, ii.

A genus of uncertain systematic position.

Acanthaspis armata Newb.

Hay, O. P. 1902 A, 332.

Claypole, E. W. 1903 A, 321.

Eastman, C. R. 1907 B, 14, 117, 198, pl. ii, fig. 2.

1908 A, 145, 277, pl. i, fig. 14.

Hussakof, L. 1908 A, 22.

Hussakof and Bryant 1919 A, 10, 17, 18, 99, text-figs. 33-35.

Jaekel, O. 1907 A, 175, fig. 4.

Newberry, J. S. 1874 H, 192.

Orton, E. 1878 A, 626.

Stauffer, C. R. 1909 A, 169.

Weller, S. 1902 A, 427.

Woodward, A. S. 1891 F, 3.

Middle Devonian (Onondaga); New York:
(Columbus and Delaware); Ohio.

Acanthaspis sp. indet.

Hussakof and Bryant 1919 A, 13, 100, pl. xxviii, fig. 4. Upper Devonian (Genesee); New York: 19, 101, text-fig. 36; Upper Devonian (Portage); New York.

PTYCTODONTIDÆ Woodward.

Hay, O. P. 1902 A, 322.

Abel, O. 1912 F, 439, 487.

1919 A, 103.

Arlt, T. 1923 A, 490 ("ptyctodontiden").

Bridge, T. W. 1904 A, 468.

Dean, B. 1906 B, 136 ("ptyctodontids").

Dollo, L. 1906 B, 135 ("ptyctodontes").

Dollo, L. 1907 B, 97 ("ptyctodontes").

Eastman, C. R. 1904 E, 295.

1907 B, 23, 67, 193.

1908 A, 120, 149.

1915 B, 440 ("ptyctodonts").

1917 A, 242.

Goodrich, E. S. 1909 A, 179.

- Gregory, W. K. 1907 D, 447.
 Hay, O. P. 1901 B, 68.
 Jaekel, O. 1903 G, 391.
 1906 D, 180 ("rhynchodonten").
 1927 B, 337 ("ptyctodonten").
 Jordan, D. S. 1905 A, i, 566.
 1907 B, 759.
 1923 A, 105.
 Petronievics, B. 1919 A, 414 ("ptyctodontes").
 Pompeckj, J. F. 1913 A, 1119, 1131.
 Sauvage, H. E. 1899 A, 6 ("ptyctodontidés").

PTYCTODUS Pander. Type *P. obliquus* Pander.

- Hay, O. P. 1902 A, 322.
 Bridge, T. W. 1904 A, 468.
 Dean, B. 1906 B, 134, 150, figs. 116, 126.
 1912 A, 226.
 Dollo, L. 1907 B, 104.
 Eastman, C. R. 1904 E, 295.
 1907 B, 70, 193, 233.
 1908 A, 119, 120, 133.
 1917 A, 242.
 Hay, O. P. 1901 B, 68.
 Huene, F. 1900 A, 65.
 Hussakof and Bryant 1919 A, 107, 108.
 Jaekel, O. 1901 A, 560.
 1903 G, 391.
 1906 D, 182.
 Jordan, D. S. 1923 A, 105.
 Lambe, L. M. 1904 C, 16.
 Leriche, M. 1925 B, 86.
 Sauvage, H. E. 1899 A, 7.
 Teller, E. 1906 A, 162.
 Weller, S. 1902 A, 427.
 Zittel and Koken 1911 A, 83.
 Zittel and Woodward 1902 A, 45.

Ptyctodus calceolus Newb. and Worth.

- Hay, O. P. 1902 A, 322.
 Branson, E. B. 1914 A, 64, pl. iii, figs. 3, 4.
 1918 A, pl. iv, fig. 16.
 1922 A, 6, 22, 44, 45, 126, pl. xxxi, figs. 1, 2.
 Calvin, S. 1897 B, 18.
 Cleland, H. F. 1911 A, 150, pl. xlviii, figs. 1-17.
 Dean, B. 1906 B, fig. 116 (*fide* Branson).
 Eastman, C. R. 1904 D, 298.
 1907 B, 15, 16, 17, 20, 71.
 1908 A, 48, 49, 128, 133, 277, 281, 286, pl. v, figs. 1-17.
 Hussakof and Bryant 1919 A, 15, 17, 108, pl. xxxiv; pl. xxxvi, figs. 1, 2, 10; pl. xxxvii, fig. 9.
 Lambe, L. M. 1904 C, 34, 42.
 Norton, W. H. 1906 A, 356.
 Shepard, E. M. 1898 A, 79.
 Tyrrell, J. B. 1892 A, 209.
 Udden, J. A. 1899 A, 289, 292, 294, 295, 298, 302.
 Upper Devonian (Genesee, Portage); New York, Illinois, Missouri, Kentucky: Middle Devonian (Cedar Valley, Hamilton, Cuboides); Wisconsin, Ontario, Manitoba, Missouri: Mississippian (Kinderhook); Missouri.

Ptyctodus compressus Eastman.

- Hay, O. P. 1902 A, 323.
 Cleland, H. F. 1911 A, 150, pl. xlviii, figs. 18-27.

- Schlosser, M. 1917 A, 133, 147 ("ptyctodontiden").
 Stensiö, E. A. 1925 B, 164, 181 ("ptyctodontids").
 Stromer, E. 1905 H, 216.
 1912 A, 25.
 Teller, E. E. 1906 A, 164.
 Zittel and Koken 1911 A, 83.
 Zittel and Schlosser 1923 A, 44.
 Zittel and Woodward 1902 A, 45.

- Eastman, C. R. 1907 B, 20, 72.
 1908 A, 135, 236, pl. v, figs. 18-27.
 Hussakof and Bryant 1919 A, 12, 15, 17, 110, pl. xxxvi, figs. 3-9, 11, 12; pl. xxxvii, figs. 1-8, 10-13.
 Norton, W. H. 1906 A, 356.
 Upper Devonian (State Quarry); Iowa: (Genesee); New York: Middle Devonian (Cedar Valley); Iowa.

Ptyctodus eastmani Weller.

- Weller, S. 1906 A, 462, pl. i, figs. 31, 32.
 Eastman, C. R. 1908 A, 137, 149.
 Mississippian (Kinderhook); Missouri.

Ptyctodus ferox Eastman.

- Hay, O. P. 1902 A, 323.
 Branson, E. B. 1914 A, 63, pl. iv, figs. 3, 4.
 1922 A, 42, 44, 127, 131, pl. xxi, fig. 12.
 Cleland, H. F. 1911 A, 151, pl. xlix, figs. 35-40.
 Eastman, C. R. 1907 B, 15, 16, 20, 72.
 1908 A, 128, 135, 277, 286, figs. 20-22.
 Hussakof and Bryant 1919 A, 116.
 Norton, W. H. 1906 A, 356.
 Teller, E. E. 1906 A, 164.
 1911 A, 271.
 Middle Devonian (Craghead); Missouri: (Hamilton); Wisconsin: (Cedar Valley); Iowa: Upper Devonian (State Quarry); Iowa: (Snyder Creek); Missouri.

Ptyctodus howlandi Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 15, 112, pl. xxxviii; text-fig. 38.
 Upper Devonian (Genesee); New York.

Ptyctodus punctatus Eastman.

- Eastman, C. R. 1907 B, 13, 70, fig. 15.
 Eastman, C. R. 1908 A, 133, 277, pl. iii, fig. 6.
 Middle Devonian (Onondaga); New York, Ohio.

Ptyctodus sp. indet.

- Eastman, C. R. 1907 B, 17. Upper Devonian (Portage); New York.
 1908 A, 281. Upper Devonian (Portage); New York.
 Udden, J. A. 1897 A, 95. Devonian (Hamilton); Iowa.

RHYNCHODUS Newb. Type *R. secans* Newb.

- Hay, O. P. 1902 A, 323.
 Bridge, T. W. 1904 A, 468.
 Dean, B. 1906 B, 134, 150, fig. 118.
 1912 A, 226.
 Eastman, C. R. 1904 E, 295.
 1906 D, 24.
 1907 B, 67, 193, 234.
 1908 A, 119, 120, 123.
 1915 B, 440.
 Garman, S. 1904 A, 246.
 Hay, O. P. 1901 B, 68.
 Huene, F. 1900 A, 65.
 Hussakof and Bryant 1919 A, 107, 125.
 Jaekel, O. 1901 A, 558-560 (Syn. of *Ptyctodus*).
 1903 G, 389, 392 (*Rhynchodus*).
 1906 D, 180.
 Jordan, D. S. 1923 A, 105.
 Lambe, L. M. 1904 C, 16.
 Weller, S. 1902 A, 427.
 Zittel and Koken 1911 A, 83.
 Zittel and Schlosser 1923 A, 44.
 Zittel and Woodward 1902 A, 45.

***Rhynchodus excavatus* Newb.**

- Hay, O. P. 1902 A, 323 (*R. excavatus*, *R. occidentalis*).
 Cleland, H. F. 1911 A, 148, pl. xlvii, fig. 4.
 Eastman, C. R. 1907 B, 15, 16, 68.
 1908 A, 124, 277, fig. 18.
 1908 B, 68 (*R. occidentalis* a syn.).
 Hussakof, L. 1908 A, 42.
 Hussakof and Bryant 1919 A, 116.
 Norton, W. H. 1906 A, 356 (*R. occidentalis*).
 Teller, E. E. 1911 A, 271.
 Udden, J. A. 1899 A, 302.
 Middle Devonian (Hamilton); Wisconsin:
 (Cedar Valley); Iowa.

***Rhynchodus ornatus* Hussakof and Bryant.**

- Hussakof and Bryant* 1919 A, 15, 117, pl. xxxix, figs. 1, 2.
 Upper Devonian (Genesee); New York.

DEINODUS Hussakof and Bryant. Type *D. bennetti* Hussakof and Bryant.

- Hussakof and Bryant* 1919 A, 123.
 Jordan, D. S. 1923 A, 105.

***Rhynchodus pertenuis* Eastman.**

- Eastman, C. R.* 1904 E, 297, fig. 2.
Eastman, C. R. 1907 B, 20, 69, 234, pl. ii, fig. 5.
 1908 A, 131, 287, fig. 19.
 Upper Devonian (Chemung); New York.

***Rhynchodus secans* Newb.**

- Hay, O. P. 1902 A, 323.
 Claypole, E. W. 1896 B, 354.
 1903 A, 321.
 Dean, B. 1906 B, 138, fig. 127.
 Eastman, C. R. 1907 B, 13, 67.
 1908 A, 123, 128, 277.
 Hussakof, L. 1908 A, 42.
 Newberry, J. S. 1874 H, 192.
 Stauffer, C. R. 1909 A, 170.
 Orton, E. 1878 A, 626.
 Middle Devonian (Columbus and Delaware); Ohio.

***Rhynchodus telleri* Hussakof and Bryant.**

- Hussakof and Bryant* 1919 A, 15, 116, text-fig. 39.
 Upper Devonian (Genesee); New York.

***Rhynchodus* sp. indet.**

- Hay, O. P. 1902 A, 323. Devonian; Manitoba.
 Clarke and Luther 1904 A, 64 Devonian (Chemung); New York.
 Cleland, H. F. 1911 A, 148, pl. xlvii, fig. 6.
 Eastman, C. R. 1907 B, 15, 16, 21, 70. Devonian (Chemung); New York: (Cedar Valley); Iowa, Illinois.
 1908 A, 132, 281. Devonian (Chemung, Naples); New York: 277, Devonian ("Cuboides"); Manitoba: 281, 287, Devonian (New Albany); Kentucky: 132, Mississippian (Waverly); Kentucky.
 Hussakof, L. 1908 A, 42.
 Lambe, L. M. 1904 C, 34. Devonian (Cuboides); Manitoba.
 Teller, E. E. 1911 A, 271. Devonian (Hamilton); Wisconsin.
 Tyrrell, J. B. 1892 A, 209. Upper Devonian; Manitoba.

PALÆOMYLUS Woodward. Type *Rhynchodus frangens* Newb.

- Hay, O. P. 1902 A, 323.
 Bridge, T. W. 1904 A, 468.
 Dean, B. 1906 B, 134, fig. 117.
 Eastman, C. R. 1904 E, 295.
 1906 D, 24.
 1907 B, 153, 193, 232.
 1908 A, 119, 120.
 Hay, O. P. 1901 B, 68.

- Hussakof and Bryant* 1919 A, 107.
 Jaekel, O. 1903 G, 391.
 Heller, E. E. 1906 A, 164, 167.
 Weller, S. 1902 A, 427.
 Woodward, A. S. 1898 B, 55.
 Zittel and Koken 1911 A, 84.
 Zittel and Schlosser 1923 A, 44.
 Zittel and Woodward 1902 A, 45.

Palæomylus crassus (Newb.).

- Hay, O. P. 1902 A, 323.
 Claypole, E. W. 1896 B, 354 (Rhynchodus).
 1903 A, 321 (Rhynchodus).
 Dean, B. 1906 B, 139, fig. 129.
 Eastman, C. R. 1907 B, 13.
 1908 A, 128, 277.
 Hussakof, L. 1908 A, 41.
 Hussakof and Bryant 1919 A, 121, text-fig. 42.
 Newberry, J. S. 1874 H, 192 (Rhynchodus).
 Orton, E. 1878 A, 626 (Rhynchodus).
 Stauffer, C. R. 1909 A, 170.
 Middle Devonian (Columbus and Delaware);
 Ohio.

Palæomylus frangens (Newb.).

- Hay, O. P. 1902 A, 323.
 Claypole, E. W. 1896 B, 354 (Rhynchodus).
 1903 A, 321 (Rhynchodus).
 Eastman, C. R. 1907 B, 13.
 1908 A, 277.
 Hussakof, L. 1908 A, 41.
 Hussakof and Bryant 1919 A, 121, text-fig. 42.
 Newberry, J. S. 1874 H, 192 (Rhynchodus
 pangens).
 Orton, E. 1878 A, 626 (Rhynchodus).

- Stauffer, C. R. 1909 A, 170.
 Middle Devonian (Columbus and Delaware);
 Ohio.

Palæomylus greenei (Newb.).

- Hay, O. P. 1902 A, 323.
 Cleland, H. F. 1911 A, 151, pl. 1.
 Dean, B. 1906 B, 139, fig. 128.
 Eastman, C. R. 1907 B, 15, 153.
 1908 A, 128, 277.
 Hussakof, L. 1908 A, 42.
 Hussakof and Bryant 1919 A, 119, text-fig. 40.
 Sauvage, H. E. 1899 A, 5.
 Teller, E. E. 1906 A, 167, pl. iv.
 1911 A, 270.
 Middle Devonian (Hamilton); Wisconsin.

Palæomylus lunaformis Hussakof and Bryant.

- Hussakof and Bryant* 1919 A, 15, 119, pl. xl,
 figs. 4-6; text-figs. 41, 42.
 Upper Devonian (Genesee); New York.

Palæomylus sp. indet.

- Hussakof and Bryant 1919 A, 15, 122, pl. xli.
 Upper Devonian (Genesee); New York.

COCCOSTEIDÆ Traquair.

- Traquair, R. H.* 1890 A, 20.
 Hay, O. P. 1902 A, 344.
 Abel, O. 1908 E, 422 ("coccosteiden").
 1912 F, 440.
 1919 A, 99.
 Bridge, T. W. 1904 A, 536.
 Eastman, C. R. 1901 C, 329 ("coccosteans").
 1904 C, 143.
 1906 D, 3.
 1907 A, 226.
 1907 B, 23, 113.
 1908 A, 160, 184.
 1917 A, 237.
 Goodrich, E. S. 1909 A, 263.
 Gregory, W. K. 1907 D, 447.

- Hussakof, L. 1906 A, 139 ("coccosteids").
 Jaekel, O. 1919 A, 75, 81, 87, fig. 3 ("coccoste").
 1926 A, 174, 181 ("coccosteiden").
 Jordan, D. S. 1923 A, 88.
 Kiaer, J. 1924 A, 116, 117.
 Lütken, C. 1871 A, 294 ("coccostées").
 Marinelli, W. 1925 A, 169.
 Regan, C. T. 1904 A, 340.
 Schlosser, M. 1917 A, 133 ("coccosteiden").
 Steinmann, G. 1907 A, 419.
 Stensiö, E. A. 1925 B, 164 ("coccosteids").
 Zittel and Koken 1911 A, 80.
 Zittel and Schlosser 1923 A, 41.
 Zittel and Woodward 1902 A, 58.

COCCOSTEINÆ Hay.

- Hay, O. P. 1902 A, 344.
 Abel, O. 1912 F, 596 ("coccosteiden").
 Dean, B. 1901 C, 120, 122 (Coccosteidæ).
 Gebhardt, F. A. M. W. 1907 A, 73 ("cocco-
 steiden").
 Jaekel, O. 1901 A, 558 ("coccosteiden").
 1902 A, 106 ("coccosteiden").
 1903 D, 41, 58 ("coccosteiden").
 1903 E, 86 ("coccosteiden").
 1903 F, 39 ("coccosteiden").

- Jaekel, O. 1903 G, 390 ("coccosteiden").
 1904 A, 33 ("coccosteiden").
 1906 B, 80 ("coccosteiden").
 1906 D, 183 ("coccosteiden").
 1907 A, 171 ("coccosteiden").
 Jordan, D. S. 1905 A, i, 586; ii, 564 (Cocco-
 steidæ).
 1907 B, 760 (Coccosteidæ).
 Lütken, C. 1868 C (Coccoste).

COCCOSTEUS Agassiz. Type *C. decipiens* Agassiz.

- Hay, O. P. 1902 A, 344.
 Abel, O. 1907 D, (159).
 1908 E, 410.
 1912 F, 439, 596, fig. 323.
 1919 A, 93, 99, figs. 53, 56, 58.
 1920 A, 324, fig. 514.
 1921 A, 160, fig. 24.
 Adams, L. A. 1919 A, 122, fig. 3.
 Allis, E. P. 1898 A, 443.

- Allis, E. P. 1905 A, 492.
 Arldt, T. 1923 A, 482.
 Barkas, W. J. 1874 D, 549.
 Bridge, T. W. 1904 A, 536, 736.
 Bronn, H. G. 1848 A, 317.
 1849 A, 656.
 Claypole, E. W. 1896 B, 350 et seq.
 1900 A, 246.
 1903 A, 313, 316.

- Coulon, L. 1903 A, 135.
 Dean, B. 1893 E, 187.
 1900 A, 3, 12, 21, 24.
 1901 A, 87.
 1901 C, 123.
 1904 D, 64.
 1907 A, 48.
 1908 A, 202.
 1909 C, 274, figs. 62-65.
 Dean, Gudger, Henn 1923 A, 664.
 Deecke, W. 1913 A, 88.
 Delafontaine, M. 1877 A, 267.
 Eastman, C. R. 1898 E, 183.
 1900 G, 287.
 1904 C, 143.
 1905 A, 41, fig. 4.
 1906 A, 141.
 1906 D, 1.
 1907 B, 115, 119, 193, *Coccosteus*; 144 (Protitanichthys, type D. fossatus).
 1908 A, 186, 188 (*Coccosteus*); 201 (Protitanichthys).
 Frassetto, F. 1915 A, fig. 5.
 Frech, F. 1897 A, 123.
 Gaudry, A. 1893 A, 120, fig. 97.
 Gebhardt, F. A. M. W. 1907 A, 85.
 Giebel, C. G. 1855 A, 113.
 Goodrich, E. S. 1904 A, 494.
 1909 A, 508, figs.
 Heilprin, A. 1887 A, 149, 301.
 Hennig, E. 1920 B, 113.
 Hoernes, R. 1886 A, 547.
 Hussakof, L. 1906 A, 120, figs. 12, 13, 19.
 1908 C, 311 (Protitanichthys).
 1909 B, 264.
 1912 B, 127.
 Huxley, T. H. 1858 D, 505, 515.
 1861 D, 449.
 Jaekel, O. 1903 B, 12.
 1903 D, 52, fig. 6.
 1906 A, 11, fig. 6.
 1906 B, 80, fig. 10.
 1906 D, 185, fig. 7.
 1907 A, 171, fig. 1.
 1908 C, 426, figs. 1, 2.
 1911 A, 47, figs. 33, 34.
 1919 A, 75, 87, 100, figs. 10, 14.
 1927 B, 332.
 Kemna, A. 1904 A, 75.
 Kingsley, J. S. 1925 A, 117, fig. 124.
 Koenen, A. 1876 A, 667.
 1890 B, 198.
 Koken, E. 1893 B, 175.
 Koschkaroff, D. N. 1906 A, 298.
 Lankester, E. R. 1864 D, 292.
 1905 A, 256, fig. 185.
 Mantell, G. A. 1844 A, 647, fig. 135.
 Miller, H. 1851 A, 92.
 Miller, J. 1869 A, 384.
 Moodie, R. L. 1920 D, 14.
 1923 B, 292.
 1926 A, 82, 83, pls. vii, ix, text-figs. 1, 5.
 Murchison, R. I. 1841 A, 99.
 1854 A, 252, fig. 48.
 Osborn, H. F. 1902 H, 749.
 1905 N, 235.
 1916 E, 606, fig. 14.
 1917 B, 170, fig.
 Owen, R. 1866 A, 196, 247.
 Patten, W. 1912 A, 388.
 Pompeckj, J. F. 1913 A, 1116, fig. 13.
 Regan, C. T. 1904 A, 340, figs. 3, 4.
 Schuchert, C. 1915 A, 686, fig. 408.
 Sollas and Sollas 1903 A, 271.
 Smith, B. 1909 B, 594.
 Steinmann, G. 1907 A, 419, fig. 742.
 Stensiö, E. A. 1925 B, 147, 170, figs. 23, 24a, 25.
 Traquair, R. H. 1890 H, 483.
 1903 A, 733.
 Watson and Day 1916 A, 28.
 Weller, S. 1902 A, 427.
 Woodward, A. S. 1915 B, lxx.
 1922 B, 30, fig. 4.
 1922 C, 79, fig. 82.
 Woodward, H. 1878 A, 16, pl. ii, fig. 1.
 Zittel and Koken 1911 A, 81, fig. 138.
 Zittel and Schlosser 1923 A, 41, figs. 50-52.
 Zittel and Woodward 1902 A, 59.
- Coccosteus canadensis* Woodward.**
 Hay, O. P. 1902 A, 344.
 Clarke, J. M. 1913 A, 113.
 Eastman, C. R. 1907 B, 17, 115.
 1908 A, 280.
 Hussakof, L. 1912 B, 127, pl. i, text-fig. 1.
 Hussakof and Bryant 1919 A, 26, pl. v, figs. 1-3.
 Lambe, L. M. 1904 C, 17, 34, 42.
 Traquair, R. H. 1903 A, 733.
 Whiteaves, J. F. 1907 B, 251.
 Upper Devonian (Scaumenac); Quebec.
- Coccosteus cuyahogæ* Claypole.**
 Hay, O. P. 1902 A, 344.
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Woodward, A. S. 1922 B, 35.
 Upper Devonian (Cleveland); Ohio.
- Coccosteus fossatus* (Eastman).**
 Eastman, C. R. 1907 B, 14, 144, 233, pl. x, fig. 2; text-fig. 30 (Protitanichthys, type).
 Eastman, C. R. 1908 A, 201, 278, fig. 30 (Protitanichthys).
 Hussakof, L. 1908 C, 311 (Protitanichthys).
 1909 B, 270, pl. xlv, text-fig. 7.
 Stauffer, C. R. 1909 A, 170 (Protitanichthys).
 Middle Devonian (Delaware); Ohio.
- Coccosteus macromus* Cope.**
 Hay, O. P. 1902 A, 344.
 Eastman, C. R. 1907 B, 21, 116.
 1908 A, 186, 287.
 Hussakof, L. 1908 A, 6.
 Upper Devonian (Chemung); Pennsylvania.
- Coccosteus occidentalis* Newb.**
 Hay, O. P. 1902 A, 344.
 Claypole, E. W. 1896 B, 354.
 1903 A, 320.
 Eastman, C. R. 1907 B, 14, 115, 145, pl. ix, fig. 3.
 1908 A, 186, 278.
 Hussakof, L. 1906 A, 137, fig. 22.
 1908 A, 6.
 1909 B, 272, fig. 8.

Moodie, R. L. 1926 A, 66.
 Newberry, J. S. 1889 A, 52, pl. xxx, figs. 2, 2a.
 Orton, E. 1878 A, 625.
 Stauffer, C. R. 1909 A, 169.
 Traquair, R. H. 1903 A, 733.

Middle Devonian (Delaware); Ohio, New York?

Coccosteus parvulus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 19, 29, pl. iv, figs. 1-3; pl. lxx, fig. 1.

Upper Devonian (Portage); New York.

Coccosteus sp. indet.

Cross, W. 1905 C, 4. Devonian (Elbert); Colorado.

Cockerell, T. D. A. 1913 A, 246. Ordovician?; Colorado.

Eastman, C. R. 1907 B, 14, 115, pl. i, fig. 9. Devonian (Oncndago); New York.

1908 A, 278.

Hussakof and Bryant 1919 A, 19. Upper Devonian (Portage); New York.

LISPOGNATHUS Miller. Type *L. spatulatus* (Newb.).

Miller, S. A. 1892 A, 716.

Hay, O. P. 1902 A, 345 (Liognathus; preoccupied).

Dean, B. 1901 C, 120 (Liognathus).

Jordan, D. S. 1920 C, 458.

Lispognathus spatulatus (Newb.).

Hay, O. P. 1902 A, 345 (Liognathus).

Claypole, E. W. 1903 A, 320 (Liognathus).

Eastman, C. R. 1907 B, 14, 145 (Liognathus).

1908 A, 186 (Liognathus); 278 (Coccosteus).

Hussakof, L. 1906 A, 140, fig. 21 (Liognathus, Coccosteus).

1908 A, 15 (Liognathus).

1908 C, 312 (Liognathus).

Orton, E. 1878 A, 626 (Liognathus).

Stauffer, C. R. 1909 A, 169 (Coccosteus).

Middle Devonian (Delaware); Ohio.

ASPIDICHTHYS Newb. Type *A. clavatus* (Newb.).

Hay, O. P. 1902 A, 345.

Arlt, T. 1923 A, 482.

Hussakof and Bryant 1919 A, 92.

Jaekel, O. 1927 B, 334.

Jordan, D. S. 1919 B, 371.

Pompeckj, J. F. 1913 A, 1119.

Woodward, A. S. 1891 A, 311.

Zittel and Schlosser 1923 A, 44.

A genus of uncertain systematic position.

Aspidichthys clavatus Newb.

Hay, O. P. 1902 A, 345.

Claypole, E. W. 1896 B, 353.

1903 A, 321.

Eastman, C. R. 1907 B, 19, 156.

1908 A, 206, 285.

Hussakof, L. 1908 A, 22.

1919 A, 92.

Newberry, J. S. 1873 G, 157.

Woodward, A. S. 1891 A, 311.

Upper Devonian (Huron shale); Ohio: (Portage); New York?

Aspidichthys? notabilis Whiteaves.

Hay, O. P. 1902 A, 345.

Eastman, C. R. 1907 B, 16.

1908 A, 279.

Hussakof and Bryant 1919 A, 13, 17, 91, pls. xxv, xxvi.

Lambe, L. M. 1904 C, 17, 34, 42.

Tyrrell, J. B. 1892 A, 209.

Upper Devonian (Genesee); New York:

Middle Devonian (Hamilton); Ontario: Devonian (Cuboides); Manitoba.

Aspidichthys? sp. indet.

Eastman, C. R. 1907 B, 15. Devonian (Hamilton); New York.

1908 A, 282. Devonian (New Albany); Kentucky.

Kiaer, J. 1915 A, 38, pl. ii, figs. 3-4 ("coccosteomorph fish." This genus?) Upper Devonian?, Ellesmere Land.

PHLYCTÆNASPINÆ, new name.

Stensiö, E. A. 1925 B, 165 ("phlyctænaspids").

PHLYCTÆNASPIS Traquair. Type *Coccosteus acadicus* Whiteaves.

Hay, O. P. 1902 A, 345.

Arlt, T. 1923 A, 482.

Chapman, F. 1916 A, 212.

Dean, B. 1901 C, 120.

1904 D, 64 (Phlyctænius).

Dean, Gudger, Henn 1923 A, 665.

Eastman, C. R. 1906 D, 17.

1907 B, 115, 117.

Gebhardt, F. A. M. W. 1907 A, 86.

Goodrich, E. S. 1909 A, 260.

Hussakof, L. 1906 A, 132, fig. 17.

Jaekel, O. 1903 D, 53, 58.

1907 A, 185.

Jaekel, O. 1919 A, 75.

1926 A, 182.

1927 B, 332.

Jordan, D. S. 1903 A, 136.

1920 C, 453.

Pompeckj, J. F. 1913 A, 1118, 1119.

Stensiö, E. A. 1925 B, 165.

Whiteaves, J. F. 1907 B, 261.

Woodward, A. S. 1915 B, lxx.

1917 G, lxxx.

Zittel and Schlosser 1923 A, 42.

Zittel and Woodward 1902 A, 59.

Phlyctænaspis acadica (Whiteaves).

Hay, O. P. 1902 A, 345.

Chapman, F. 1916 A, 212, pl. xxi, fig. 6.

Eastman, C. R. 1907 B, 13.

1908 A, 188, 276.

Hussakof, L. 1906 A, 137.

Jaekel, O. 1895 C, 162.

Lambe, L. M. 1904 C, 16, 34, 42.

1912 A, 4.

Stensiö E. A. 1925 B, 165, figs. 20, 21.

Whiteaves, J. F. 1907 B, 265, pl. iv, figs. 1-4.

Lower Devonian; New Brunswick.

DINICHTHYINÆ Eastman.

Hay, O. P. 1902 A, 345.

Claypole, E. W. 1893 H, 22 ("palæozoic fishes").

Dames, W. 1898 E, 527, 529.

Dean, B. 1901 C, 120, 122 (Dinichthyidæ, Titanichthyidæ).

1911 B, 302 ("placoderms").

Eastman, C. R. 1907 A, 228 ("dinichthyids").

1909 B, 997 ("dinichthyids").

Goodrich, E. S. 1909 A, 263 (Dinichthyidæ, Titanichthyidæ).

Gregory, W. K. 1907 D, 447 (Dinichthyidæ; Trachosteidæ).

Hussakof, L. 1906 A, 140 ("dinichthyids").

Jaekel, O. 1903 D, 58 ("dinichthyiden").

1919 A, 76 ("dinichthyiden").

Jordan, D. S. 1905 A, i, 587 (Dinichthyidæ, Titanichthyidæ).

1907 B, 760 (Dinichthyidæ, Titanichthyidæ).

1923 A, 88 ("Dinichthyidæ, Titanichthyidæ").

Prosser, C. S. 1913 A, 349, 353 ("fossil-fishes").

Woodward, A. S. 1904 C, 190 ("dinichthyid fishes").

HUSSAKOFIA Cossmann. Type *Dinichthys minor* Newb.

Cossmann, M. 1910, Rev. crit. Paléozool., xiv, 74.

Hussakof, L. 1909 B, 263 (Brachygnathus, preoccupied).

Zittel and Schlosser 1923 A, 43 (Brachygnathus).

Hussakofia minor (Newb.).

Hay, O. P. 1902 A, 347 (Dinichthys).

Claypole, E. W. 1903 A, 320, 322 (Dinichthys).

Eastman, C. R. 1907 B, 19 (Dinichthys).

1908 A, 284 (Dinichthys).

Hussakof, L. 1906 A, 130, fig. 13 (Dinichthys).

1908 A, 12 (Dinichthys).

1909 B, 266, figs. 1-3 (Brachygnathus).

Smith, B. 1909 B, 593 (Dinichthys).

Upper Devonian (Cleveland shale); Ohio.

DINICHTHYS Newb. Type *D. hertzeri* Newb.

Hay, O. P. 1902 A, 345.

Abel, O. 1912 F, 487.

Adams, L. A. 1919 A, 123, pl. xi.

Allis, E. P. 1905 A, 492.

Anonymous, 1916 A, 140.

Arlt, T. 1923 A, 482.

Barkas, W. J. 1874 D, 550.

Branson, E. B. 1922 A, 6.

Bridge, T. W. 1904 A, 537.

Clark, W. 1898 A, 46, figs.

Dames, W. 1898 E, 528.

Claypole, E. W. 1896 B (Dinichthys, Gorgonichthys).

1903 A, 316 (Gorgonichthys).

Dean, B. 1893 E, 187.

1900 A, 26.

1900 B, 10.

1901 C, 111, 120, 123 (Dinichthys); 120 (Gorgonichthys?).

1907 A, 47, 48.

1908 A, 202.

1909 C, 277, figs. 58-61.

1923 A, 608.

Dean, Gudger, Henn 1923 A, 677.

Deecke, W. 1913 A, 89.

Delafontaine, M. 1877 A, 266.

Dollo, L. 1907 B, 107.

Eastman, C. R. 1905 A, 42.

1906 A, 132, 134.

1906 D, 1.

1907 A, 211.

1907 B, 96, 118, 193, 225.

1908 A, 188.

1909 C, 262.

1917 A, 249.

Gaudry, A. 1896 A, 59.

Gill, T. 1879 A, 7.

Gregory, W. K. 1914 E, 526.

1915 D, 324.

Heilprin, A. 1887 A, 149, 302.

Hennig, E. 1920 B, 113.

Huene, F. 1900 A, 64.

Hussakof, L. 1905 A, 27.

1906 A, 107, figs. 1, 2, 8, 9.

1909 B, 264.

1911 B, 126.

Jaekel, O. 1902 A, 112.

1907 A, 181.

1919 A, 75, fig. 6.

1927 B, 332.

Kayser, E. 1880 A, 819.

Kemna, A. 1903 A, 353.

1904 A, 77 (Dinichthys, Gorgonichthys).

Kingsley, J. S. 1925 A, 117.

Lankester, E. R. 1905 A, 257, fig. 185.

Moodie, R. L. 1920 C, 48, pl. i, figs. A, B.

1926 A, 66, 81, 83, pl. viii, text-figs. 1-4, 6.

Newberry, J. S. 1873 G, 157.

Norton, W. H. 1906 A, 357.

Orton, E. 1878 A, 635.

Osborn, H. F. 1902 H, 749.

1905 N, 235.

1917 B, 175.

Pompeckj, J. F. 1913 A, 1116.

Rogers, A. F. 1924 A, 548, pl. xxv, fig. 3.

St. John, O. 1902 A, 654.

Sauvage, H. E. 1899 A, 4.

1899 B, 86.

Schlosser, M. 1917 A, 133, 146.

Sharp, K. D. 1903 A, 263.

Smith, B. 1909 B, 588.

Stensiö, E. A. 1925 B, 170, fig. 23.

- Teller, E. E. 1906 A, 167.
 Traquair, R. H. 1880 A, 159.
 Weller, S. 1902 A, 427.
 Woodward, A. S. 1890 F, 147.
 1915 B, lxx.
 1922 B, 33, 35.
 1922 C, 80.

- Woodward, H. 1878 A, 16.
 Wright, A. A. 1897 A, 59.
 Zittel and Koken 1911 A, 82.
 Zittel and Schlosser 1923 A, 42.
 Zittel and Woodward 1902 A, 59.

Dinichthys armstrongi Hussakof and Bryant.

- Hussakof and Bryant* 1919 A, 54, pl. lxx, fig. 3
 ("D. sp.," *D. armstrongi*).
 Upper Devonian (Chemung); New York.

Dinichthys canadensis Whiteaves.

- Hay, O. P. 1902 A, 346.
 Claypole, E. W. 1903 A, 320, 322.
 Eastman, C. R. 1907 B, 15.
 1908 A, 279.
 Hussakof, L. 1906 A, 137.
 Kindle, E. M. 1914 B, 255.
 Lambe, L. M. 1904 C, 17, 34, 42.
 Tyrrell, J. B. 1892 A, 209.
 Devonian ("Cuboides"); Manitoba.

Dinichthys clarki (Claypole).

- Hay, O. P. 1902 A, 346.
 Claypole, E. W. 1896 B, 350, et seq. (*Gorgonichthys*).
 1903 A, 320 (*Gorgonichthys*).
 Eastman, C. R. 1900 B, 35.
 1907 B, 19.
 1908 A, 284.
 Gaudry, A. 1896 A, 59 (*Gorgonichthys*).
 Hussakof, L. 1905 B, 412, 414, pl. xv, fig. 2;
 pl. xvii.
 1908 A, 7.
 Hyde, J. E. 1926 A, 497 (*D. clarkii*).
 Upper Devonian (Cleveland); Ohio.

Dinichthys curtus Newb.

- Hay, O. P. 1902 A, 346.
 Adams, L. A. 1919 A, 122, fig. 4.
 Branson, E. B. 1908 C, 368.
 Claypole, E. W. 1903 A, 320, 322.
 Eastman, C. R. 1907 B, 19, 21, 138, 228.
 1908 A, 200, 284, 287.
 Hussakof, L. 1905 B, 409; pl. xv, fig. 1; pl.
 xvi; text-figs. 1, 2.
 1906 A, 110, pl. xii; text-fig. 5.
 1908 A, 7.
 Upper Devonian (Cleveland); Ohio; (Chemung); Pennsylvania.

Dinichthys halmodeus (Clarke).

- Hay, O. P. 1902 A, 346.
 Abel, O. 1919 A, 96, fig. 56.
 Clarke and Ruedemann 1903 A, 766.
 Eastman, C. R. 1907 B, 15, 126, 228, pl. ii, fig.
 7; pl. x, fig. 1; text-fig. 24.
 1908 A, 191, 278, fig. 27.
 1917 A, 249, fig. 4.

- Hussakof, L. 1906 A, 137, 140, 146, figs. 22, 24.
 1908 C, 312.
 1912 B, 131.
 Smith, B. 1909 B, 589, figs. 1-3.
 1910 A, 658, fig. 2.
 Stensiö, E. A. 1925 B, 175, fig. 24b.
 Middle Devonian (Marcellus); New York.

Dinichthys hertzeri Newb.

- Hay, O. P. 1902 A, 346.
 Abel, O. 1912 F, 487.
 1919 A, 102, fig. 61.
 Baird, S. F. 1876 A, cc (*D. herzeri*).
 Claypole, E. W. 1896 B, 353.
 1903 A, 315, 320, 322.
 Eastman, C. R. 1902 D, 655 (*D. herzeri*).
 1907 B, 19, 228 (*D. herzeri*).
 1908 A, 283 (*D. herzeri*).
 Hussakof, L. 1905 B, 414.
 1906 A, 118, pl. xiii, figs. 1-4; text-figs. 3,
 11, 25.
 1908 A, 10.
 Hyde, J. E. 1926 A, 497 (*D. herzeri*).
 Jaekel, O. 1919 A, 80, fig. 6.
 Newberry, J. S. 1870 E, 20.
 1873 G, 157.
 1874 H, 189.
 Prosser, C. S. 1913 A, 327 (*D. herzeri*).
 St. John, O. 1902 A, 655.
 Weller, S. 1926 A, 496, fig. (*D. herzeri*).
 Woodward, H. 1878 A, 16, fig. 14.
 Zittel and Koken 1911 A, 81, figs. 143, 144.
 Zittel and Schlosser 1923 A, 43, fig. 55.
 Zittel and Woodward 1902 A, 60, fig. 112.
 Upper Devonian (Huron); Ohio, Kentucky;
 (Cleveland?); Ohio.

Dinichthys insolitus Hussakof and Bryant.

- Hussakof and Bryant* 1919 A, 13, 53, pl. xxvii,
 fig. 3.
 Upper Devonian (Genesee); New York.

Dinichthys intermedius Newb.

- Hay, O. P. 1902 A, 346.
 Abel, O. 1912 F, 487, fig. 370.
 1919 A, 101, fig. 60.
 Adams, L. A. 1919 A, 125, figs. 4, 5.
 Anonymous 1916 A, 140.
 Branson, E. B. 1908 B, 94.
 1908 C, 366.
 1909 A, 197.
 Claypole, E. W. 1896 B, 351.
 1903 A, 316, 320, 322.
 Dames, W. 1898 E, 528, fig. 1.
 Eastman, C. R. 1907 B, 19, 228, fig. 23.
 1908 A, 195, 284.
 Hussakof, L. 1903 A, 27, pl. v; text-figs. 1, 2.
 1905 B, 411.
 1906 A, 118, pl. xiii, fig. 5, text-figs. 4, 6,
 10, 13, 19, 20, 24.
 1908 A, 10.
 Hussakof and Bryant 1919 A, 19, 33, figs. 5, 6
 (This species?).
 Jaekel, O. 1919 A, 80, 89, figs. 6, 10.
 Jordan, D. S. 1907 B, 245, fig. 183.
 Kemna, A. 1904 A, 68.

- Kingsley, J. S. 1925 A, 117, fig. 123.
 Koken, E. 1893 B, 172.
 Moodie, R. L. 1926 A, 80.
 Osborn, H. F. 1916 E, 604, fig. 12.
 Pompeckj, J. F. 1913 A, 1117, fig. 15.
 Smith, B. 1910 A, 661.
 Stensiö, E. A. 1925 B, 174.
 Woodward, A. S. 1922 B, 32, 34, figs. 4, 5.
 1922 C, 80, fig. 83.
 Zittel and Koken 1911 A, 81, figs. 142, 147.
 Zittel and Schlosser 1923 A, 43, fig. 56.
 Upper Devonian (Cleveland); Ohio.

Dinichthys kepleri Claypole.

- Claypole, E. W. 1897 B, 322, pl. xx.
 Eastman, C. R. 1908 A, 284 (Syn.? of *D. hertzeri*).
 Upper Devonian (Cleveland); Ohio.

Dinichthys lincolni Claypole.

- Hay, O. P. 1902 A, 347.
 Clarke and Ruedemann 1903 A, 766.
 Claypole, E. W. 1903 A, 314, 320, 322.
 Dean, B. 1901 C, 112.
 Eastman, C. R. 1907 B, 15, 129, 228, pl. vii, figs. 4-6.
 1908 A, 193, 278, pl. ii, fig. 20.
 Hussakof, L. 1906 A, 115, 117, 142.
 Jaekel, O. 1919 A, 92, fig. 11.
 Smith, B. 1909 B, 595.
 Middle Devonian (Marcellus); New York.

Dinichthys magnificus Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 13, 17, 36, pls. i, vii-ix; pl. xvii, fig. 3; pl. xxxii, fig. 1; text-figs. 7-9, 11, 12.
 Bryant, W. L. 1916 A, 9 pl.
 Upper Devonian (Genesee, Portage); New York.

Dinichthys missouriensis Branson.

- Branson, E. B. 1914 A, 61, pl. ii, figs. 1, 2, 4.
 Eastman, C. R. 1917 A, 248.
 Upper Devonian; Missouri.

Dinichthys newberryi Clarke.

- Hay, O. P. 1902 A, 347.
 Abel, O. 1919 A, 96, fig. 56.
 Clarke and Luther 1904 A, 59.
 Clarke and Ruedemann 1903 A, 766.
 Claypole, E. W. 1903 A, 320, 322.
 Dames, W. 1898 E, 528, fig. 2 (This species?).
 Eastman, C. R. 1907 B, 17, 133, 228, pl. vi, fig. 2.
 1908 A, 198, 281.
 1917 A, 248.
 Hussakof, L. 1903 A, 35.
 Hussakof and Bryant 1919 A, 13, 17, 45, pls. x, xi; text-figs. 13, 14.
 Merrill, G. P. 1907 A, 10.
 Smith, B. 1909 B, 593 (This species?).
 Upper Devonian (Genesee, Portage?); New York: (New Albany); Kentucky.

Dinichthys præmaxillaris Hay.

- Hay, O. P. 1902 A, 347.
 Claypole, E. W. 1897 B, 323 (*D. clarki*).

- Claypole, E. W. 1903 A, 320, 322 (*D. clarki*).
 Eastman, C. R. 1908 A, 284 ("D. clarki").
 Upper Devonian (Cleveland); Ohio.

Dinichthys precursor Newb.

- Hay, O. P. 1902 A, 347.
 Claypole, E. W. 1896 B, 354 (*D.?* *præcursor*).
 1903 A, 320, 322 (*D.?* *præcursor*).
 Eastman, C. R. 1907 B, 14.
 1908 A, 278.
 Hussakof, L. 1903 A, 35.
 1906 A, 137.
 1908 A, 12.
 Stauffer, C. R. 1909 A, 169.
 Middle Devonian (Columbus); Ohio.

Dinichthys prentis-clarki Claypole.

- Hay, O. P. 1902 A, 347.
 Eastman, C. R. 1907 B, 19.
 1908 A, 284 (Syn.? of *D. gouldi*).
 Hussakof, L. 1906 A, 146.
 Kemna, A. 1904 A, 68.
 Upper Devonian (Cleveland); Ohio.

Dinichthys pustulosus Eastman.

- Hay, O. P. 1902 A, 347.
 Branson, E. B. 1922 A, 22, 127, pl. xxxi, figs. 7, 8.
 Cleland, H. F. 1911 A, 155, pl. xlv, figs. 1, 2, pl. xvi; text-fig. 4.
 Dames, W. 1898 E, 530.
 Dean, B. 1901 C, 122.
 Eastman, C. R. 1902 D, 653, figs. 1, 2.
 1906 A, 140, fig. 3.
 1906 D, 12, fig. A.
 1907 B, 15, 16, 17, 20, 130, 228, pl. ii, fig. 6; pl. v, figs. 2, 3; pl. xii; text-fig. 25.
 1908 A, 49, 194, 278, 281, 286, pl. i, fig. 10; pl. iv; text-fig. 28.
 1917 A, 248, pl. viii, fig. 8.
 Hussakof, L. 1906 A, 137, 142, fig. 22.
 1926 A, 245.
 Hussakof and Bryant 1919 A, 13, 17, 50, pl. xii; pl. xiii, figs. 1, 2.
 Norton, W. H. 1906 A, 356.
 St. John O. 1902 A, 656, fig. 1 ("dinichthys").
 Sauvage, H. E. 1899 B, 86.
 Sauvage and Udden 1922 A, 138.
 Teller, E. E. 1911 A, 270.
 Upper Devonian (Genesee); New York: (State Quarry); Iowa: (New Albany); Kentucky: (Seneca); New York.
 Middle Devonian (Hamilton); Wisconsin: (Cedar Valley); Iowa, Illinois: (Minéola); Missouri.

Dinichthys rowleyi Branson.

- Branson, E. B. 1914 A, 60, pl. i, figs. 1, 2, 4-6; pl. iii, figs. 1, 2, 6.
 Upper Devonian; Missouri.

Dinichthys subgracilis Branson.

- Branson, E. B. 1911 B, 24, 29, pl. ii.
 Upper Devonian (Ohio shales); Ohio.

Dinichthys tenuidens Hussakof and Weller, S. 1926 A, 496, fig.

Bryant.

Hussakof and Bryant 1919 A, 19, 55, pl. lxix, fig. 2. Upper Devonian (Portage); New York.

Dinichthys terrelli Newb.

Hay, O. P. 1902 A, 347.

Baird, S. F. 1876 A, ee.

Branson, E. B. 1908 C, 363, figs. 1, 2.

1911 B, 30, pl. iii.

Claypole, E. W. 1896 B, 351.

1897 B, 323.

1903 A, 316, 320, 322.

Dean, B. 1909 C, 268, pls. xxxviii, xxxix.

1911 A, 801

Eastman, C. R. 1902 D, 655.

1906 D, 14, fig. C.

1907 B, 19, 228.

1908 A, 195, 284.

1917 A, 248.

Gaudry, A. 1896 A, 109, fig. 89.

Hussakof, L. 1905 B, 414.

1906 A, 118, figs. 20, 22, 24, 25.

1908 A, 12.

Hussakof and Bryant 1919 A, 32, pl. vi, figs. 1-3; text-fig. 10.

Hyde, J. E. 1926 A, 497.

Kemna, A. 1904 A, 68.

Newberry, J. S. 1874 H, 189, 214.

1889 A, *passim*, pl. iv, figs. 1, 2; pl. v,

figs. 1-3; pl. vi, pl. vii, figs. 1, 2; pl.

xxxii, fig. 1; pl. xxxiii, pl. xliii, fig. 2;

pl. xlviii; figs. 1, 2; pl. 1.

St. John, O. 1902 A, 655.

PERISSOGNATHUS Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 81.

The family position of this genus is doubtful.

STENOGNATHUS Newb. Type *Dinichthys corrugatus* Newb.

Hay, O. P. 1902 A, 348.

Dean, B. 1901 C, 120.

Stenognathus corrugatus Newb.

Hay, O. P. 1902 A, 348.

Claypole, E. W. 1903 A, 320, 322 (Dinichthys).

Eastman, C. R. 1907 B, 19.

1908 A, 285.

Hussakof, L. 1908 A, 17.

1909 B, 267, fig. 4.

1911 B, 126.

Hussakof and Bryant 1919 A, 68.

Upper Devonian (Cleveland); Ohio.

Stenognathus denticulatus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 71, text-fig. 23.

Upper Devonian (Genesee); New York.

Upper Devonian (Cleveland and Ohio shales); Ohio.

Dinichthys tuberculatus Newb.

Hay, O. P. 1902 A, 347.

Arlt, T. 1923 A, 482.

Claypole, E. W. 1903 A, 320, 322.

Cleland, H. F. 1911 A, 156.

Dames, W. 1898 D, 529.

Eastman, C. R. 1907 B, 15, 16, 21, 137, 228.

1908 A, 199, 279, 286, 288.

1917 A, 249, pl. ii, fig. 1.

Hussakof, L. 1906 A, 150.

1908 A, 14.

Upper and Middle Devonian (State Quarry?) and (Cedar Valley); Iowa: (Hamilton); Wisconsin: (New Albany); Kentucky: (Chemung); Pennsylvania: (Corniferous?); Ohio: Devonian; Belgium.

Dinichthys sp. indet.

Hay, O. P. 1902 A, 347. Devonian (Catskill); New York.

Branson, E. B. 1914 A, 63, pl. i, fig. 3; pl. iii, figs. 2, 5-7. Devonian; Missouri.

Eastman, C. R. 1907 B, 16, 17, 139; pl. vi, fig.

1 (Various specimens; Wisconsin, New York).

1908 A, 282, 289, Devonian (Portage and

Catskill 2 sp.?); New York.

Hussakof, L. 1908 A, 14, 21 (Third genus?)

Upper Devonian (Cleveland); Ohio.

Hussakof and Bryant 1919 A, 19, 56, text-figs.

18-19. Upper Devonian (Portage); New York:

13, 60, Upper Devonian (Genesee); New York.

Type *P. aduncus* Hussakof and Bryant.

Perissognathus aduncus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 10, 81, pl. xx, figs. 1-1b; pl. xxvii, figs. 4, 4a. Upper Devonian (Genesee); New York.

Stenognathus dolichocephalus (Eastman).

Eastman, C. R. 1907 B, 17, 135, 228, pl. v, fig. 1 (Dinichthys).

Eastman, C. R. 1908 A, 281 (Dinichthys).

Hussakof, L. 1908 C, 311 (Dinichthys).

Hussakof and Bryant 1919 A, 66, text-figs. 21, 22.

Upper Devonian (Portage); New York.

Stenognathus gouldii (Newb.).

Hay, O. P. 1902 A, 346 (Dinichthys).

Claypole, E. W. 1903 A, 320, 322 (Dinichthys gouldi).

Dean, B. 1909 C, 272 (Dinichthys).

Eastman, C. R. 1907 B, 19 (Dinichthys).

1908 A, 284 (Dinichthys).

Hussakof, L. 1906 A, 146 (Syn. of Dinichthys prentis-clarki).

1908 A, 8, fig. 1 (Dinichthys).

1911 B, 126, pl. viii, fig. 5; text-fig. 6.

Hussakof and Bryant 1919 A, 68, 71, pl. xv, fig. 1.

Hyde, J. E. 1926 A, 498.

Stensiö, E. A. 1925 B, 179 (Dinichthys).

Upper Devonian (Cleveland); Ohio: (Genesee); New York.

Stenognathus gracilis (Claypole).

Hay, O. P. 1902 A, 346 (Dinichthys).

Adams, L. A. 1919 A, 125, fig. 4 (Stenognathus).

Claypole, E. W. 1903 A, 320, 322 (Dinichthys).

Eastman, C. R. 1907 B, 19 (Dinichthys).

1908 A, 284 (Dinichthys).

Hussakof, L. 1911 B, 126 (Dinichthys).

Upper Devonian (Cleveland); Ohio.

Stenognathus insignis Hussakof and Brvant.

Hussakof and Bryant 1919 A, 13, 73, pl. xxi, fig. 2; text-fig. 24; 78 (This species?). Upper Devonian (Genesee); New York.

Stenognathus mixeri Hussakof and Bryant.

Hussakof and Bryant 1919 A, 19, 75, text-fig. 25. Upper Devonian (Portage); New York.

Stenognathus ringuebergi (Newberry).

Hay, O. P. 1902 A, 347 (Dinichthys).

Claypole, E. W. 1903 A, 320, 322 (Dinichthys).

Eastman, C. R. 1907 B, 17, 134 (Dinichthys).

1908 A, 281 (Dinichthys).

Hussakof and Bryant 1919 A, 19, 68, pl. xi, fig. 2, pl. lxix, fig. 1.

Upper Devonian (Portage); New York.

MACHÆROGNATHUS Hussakof and Bryant.

Hussakof and Bryant 1919 A, 83.

The family position of this genus is doubtful.

Type *M. woodwardi* Hussakof and Bryant.

Machærognathus woodwardi Hussakof and Bryant.

Hussakof and Bryant 1919 A, 10, 83, pl. xxi, figs. 1a, 1b; text-fig. 27. Upper Devonian (Genesee); New York.

TITANICHTHYS Newberry.

Hay, O. P. 1902 A, 348 (Titanichthys, Brontichthys).

Abel, O. 1912 F, 487.

Allis, E. P. 1905 A, 492.

Bridge, T. W. 1904 A, 537.

Claypole, E. W. 1896 B (Titanichthys, Brontichthys).

1903 A, 316.

Dames, W. 1898 E, 529.

Dean, B. 1900 A, 26.

1900 B, 12.

1901 C, 120.

1907 A, 48.

1908 A, 202.

1909 C, 270.

Eastman, C. R. 1905 A, 42.

1907 B, 140, 234.

1908 A, 203.

Gaudry, A. 1896 A, 59.

Heilprin, A. 1887 A, 149.

Hussakof, L. 1906 A, 120.

1909 B, 269.

1911 B, 124 (Brontichthys; syn. of Titanichthys).

Jaekel, O. 1919 A, 75.

1926 A, 166.

Kemna, A. 1903 A, 353.

1904 A, 69.

Koken, E. 1893 B, 172.

Newberry, J. S. 1889 A, 130.

Osborn, H. F. 1902 H, 749.

Pompeckj, J. F. 1913 A, 1116.

Sauvage, H. E. 1899 B, 86.

Stensiö, E. A. 1925 B, 137, 173.

Woodward, A. S. 1890 F, 147.

1915 B, lxx.

1922 C, 80.

Zittel and Koken 1911 A, 83.

Type *T. agassizii* Newb.

Zittel and Schlosser 1923 A, 43.

Zittel and Woodward 1902 A, 60.

Titanichthys agassizii Newb.

Hay, O. P. 1902 A, 348.

Claypole, E. W. 1903 A, 320 (T. agassizi).

Dean, B. 1909 C, 270.

Eastman, C. R. 1907 B, 19, fig. 29.

1908 A, 204, 284, fig. 31.

Hussakof, L. 1908 A, 18, figs. 2, 5a.

Sauvage, H. E. 1899 B, 87.

Stensiö, E. A. 1925 B, 143, text-figs. 14, 16.

Upper Devonian (Cleveland); Ohio.

Titanichthys attenuatus Wright. -

Hay, O. P. 1902 A, 348.

Claypole, E. W. 1903 A, 320.

Eastman, C. R. 1907 B, 19.

1908 A, 284.

Upper Devonian (Cleveland); Ohio.

Titanichthys brevis Claypole.

Hay, O. P. 1902 A, 348.

Eastman, C. R. 1907 B, 19.

1908 A, 284.

Upper Devonian (Cleveland); Ohio.

Titanichthys clarkii Newb.

Hay, O. P. 1902 A, 348.

Claypole, E. W. 1903 A, 316, 320 (T. clarki).

Dean, B. 1909 C, 270 (T. clarki).

Eastman, C. R. 1907 B, 19, 141, 234, figs. 27, 28 (T. clarki).

1908 A, 285 (T. clarki).

Hussakof, L. 1906 A, 120.

1908 A, 18, figs. 3, 4, 5b (T. clarki).

Kemna, A. 1904 A, 68 (T. clarki).

Upper Devonian (Cleveland); Ohio.

Titanichthys hussakofi, nom. nov.

- Hay, O. P. 1902 A, 348 (*Brontichthys clarki*).
 Claypole, E. W. 1895 I, 8 (*Brontichthys clarki*).
 1903 A, 321 (*Brontichthys clarki*).
 Eastman, C. R. 1907 B, 19 (*Brontichthys clarki*).
 1908 A, 284 (*Brontichthys clarki*).
 Hussakof, L. 1911 B, 124, fig. 1 (*Titanichthys clarki*).

Upper Devonian (Cleveland); Ohio.

The assignment of this species to *Titanichthys* requires a new specific name.

Titanichthys rectus Claypole.

- Hay, O. P. 1902 A, 348.
 Claypole, E. W. 1896 B, 351.

Claypole, E. W. 1903 A, 316, 320.

Eastman, C. R. 1907 B, 19.

1908 A, 285.

Hussakof, L. 1911 B, 125, fig. 3.

Hussakof and Bryant 1919 A, 65, text-fig. 20.

Upper Devonian (Cleveland shale); Ohio.

Titanichthys sp. indet.

Hay, O. P. 1902 A, 348.

Branson, E. B. 1914 A, 63, pl. iii. Upper Devonian, Missouri.

Cleland, H. F. 1911 A, 157. Middle Devonian; Wisconsin.

Hussakof and Bryant 1919 A, 65, text-fig. 20.

Upper Devonian (Cleveland); Ohio.

TRACHOSTEIDÆ Dean.

Dean, B. 1901 C, 120.

Dean, B. 1909 C, 276.

TRACHOSTEUS Newb. Type *T. clarkii* Newb.

Hay, O. P. 1902 A, 348.

Claypole, E. W. 1896 B, 351.

Dean, B. 1900 A, 25.

1901 C, 120.

1909 C, 272, figs. 56, 57.

Dean, Gudger, Henn 1923 A, 665.

Eastman, C. R. 1900 G, 288.

Hussakof, L. 1906 A, 148.

Hussakof and Bryant 1919 A, 91.

Jordan, D. S. 1920 C, 447 (*Dinichthys mirabilis* erroneously given as type).

Trachosteus clarkii Newb.

Hay, O. P. 1902 A, 348.

Claypole, E. W. 1903 A, 320 (*T. clarki*).

Dean, B. 1909 C, 272, pl. xli (*T. clarki*).

Eastman, C. R. 1907 B, 19 (*T. clarki*).

1908 A, 285.

Hussakof, L. 1908 A, 21.

Upper Devonian (Cleveland); Ohio.

MYLOSTOMATIDÆ A. S. Woodward.

Hay, O. P. 1902 A, 350.

Abel, O. 1919 A, 102.

Dean, B. 1901 C, 120, 122 (*Mylostomidæ*).

Eastman, C. R. 1906 D, 20 ("*mylostomids*").

1907 A, 211 ("*mylostomid*").

1907 B, 23, 149, 231.

1908 A, 177.

1909 C, 261 ("*mylostomids*").

Goodrich, E. S. 1909 A, 263 (*Mylostomidæ*).

Gregory, W. K. 1907 D, 447 (*Mylostomidæ*).

Jaekel, O. 1903 D, 58 ("*mylostomatiden*").

Jordan, D. S. 1905 A, i, 587 (*Mylostomidæ*).

1907 B, 760 (*Mylostomidæ*).

1923 A, 89 (*Mylostomidæ*).

Schlosser, M. 1917 A, 133 ("*mylostomatiden*").

Stensiö, E. A. 1925 B, 180 ("*mylostomids*").

Zittel and Schlosser 1923 A, 45.

DINOMYLOSTOMA Eastman. Type *D. beecheri* Eastman.

Eastman, C. R. 1906 D, 15, 23.

Dean, B. 1907 A, 47, 48.

Eastman, C. R. 1906 A, 137.

1907 B, 94, 151, 228.

1908 A, 177.

1909 B, 997.

1909 C, 261.

1917 A, 250.

Hussakof, L. 1906 A, 119.

1913 A, 245.

Woodward, A. S. 1922 B, 34.

Dinomylostoma beecheri Eastman.

Eastman, C. R. 1906 D, 23, pl. i, figs. 4, 5; pl. ii, figs. 13, 14, 16, 17; pls. iv, v; text-figs. F-H.

1906 A, 137, fig. 2.

1907 A, 226.

1907 B, 17, 151, 228, pl. xiv, figs. 5, 6; pl.

xv; text-figs. 32, 33.

1908 A, 177, 282.

1909 C, 261.

Hussakof, L. 1908 A, 14.

1913 A, 246; fig. 1a.

Upper Devonian (Portage); New York.

Dinomylostoma buffaloensis Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 86, pl. xxiii, fig. 1; pl. xxiv, figs. 1, 2, 4, 5; text-fig. 29.

Upper Devonian (Genesec); New York.

Dinomylostoma eastmani Hussakof.

Hussakof, L. 1913 A, 245, pl. xlvii, fig. 7; text-fig. 1b.

Eastman, C. R. 1908 A, 179 ("*undescribed species*").

Devonian (New Albany); Kentucky.

Dinomylostoma sp. indet.

Hussakof and Bryant 1919 A, 13, 19, 90, pl. xxiv, figs. 5, 6. Upper Devonian (Genesec);

19, 90, pl. xxiii, fig. 2: (Portage); New York.

COPANOGNATHUS Hussakof and Bryant. Type *C. crassus* Hussakof and Bryant.
Hussakof and Bryant 1919 A, 84.

Copanognathus crassus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 84, pl. xxii, figs. 2-4; text-fig. 28.

Upper Devonian (Genesee); New York.

MYLOSTOMA Newb. Type *M. variable* Newb.

Hay, O. P. 1902 A, 350.

Adams, L. A. 1919 A, 127.

Branson, E. B. 1922 A, 6.

Bridge, T. W. 1904 A, 537.

Claypole, E. W. 1896 B, 350, 351.

Dean, B. 1900 A, 26.

1901 B, 101.

1901 C, 120.

1907 A, 47, 48.

1908 A, 203.

1912 A, 226.

Dean, Gudger, Henn 1923 A, 664, 665.

Eastman, C. R. 1900 G, 288.

1906 A, 132, 136.

1906 D, 1, 20.

1907 A, 213.

1907 B, 97, 149, 231.

1908 A, 179.

1909 B, 997.

1909 C, 261.

1917 A, 250.

Hussakof, L. 1906 A, 119.

Hussakof and Bryant 1919 A, 125.

Pompeckj, J. F. 1913 A, 1118, 1120.

Stensiö, E. A. 1925 B, 164, 180.

Woodward, A. S. 1922 B, 35.

Zittel and Koken 1911 A, 84.

Mylostoma eastmani Branson.

Branson, E. B. 1914 A, 62, pl. ii, fig. 3.

Upper Devonian; Missouri.

Mylostoma newberryi Eastman.

Eastman, C. R. 1907 A, 224, fig. D.

1908 A, 180, 285.

1909 C, 262.

Hussakof, L. 1908 A, 16.

Upper Devonian (Cleveland); Ohio.

Mylostoma terrelli Newb.

Hay, O. P. 1902 A, 350.

Claypole, E. W. 1903 A, 320.

Eastman, C. R. 1906 D, pl. iii, fig. 21.

1907 A, 213.

1908 A, 180, 285.

1909 B, 997.

1909 C, 264.

1917 A, 251.

Hussakof, L. 1909 B, 268 (Syn. of *M. variable*).

Upper Devonian (Cleveland); Ohio.

Mylostoma variable Newb.

Hay, O. P. 1902 A, 350.

Abel, O. 1912 F, 439.

1919 A, 103, fig. 62.

1920 A, 324, fig. 515.

Claypole, E. W. 1903 A, 320.

Dean, B. 1901 B, 100, pls. vii, viii; text-figs. 3-10.

Eastman, C. R. 1906 A, 136, fig. 1.

1906 D, 21, pl. i, figs. 1-3, 6-9; pl. ii, figs. 10-12, 15; pl. iii, figs. 19, 20; text-fig. E.

1907 A, 213, pl. xix; text-figs. A-C.

1907 B, 19, 98, 149, 231, pl. xiv, figs. 1-4; text-figs. 18, 31.

1908 A, 162, 285, figs. 23, 25.

1909 B, 997.

1909 C, 263, figs. 1, 3.

Goodrich, E. S. 1909 A, 264, fig. 233 (*M. variabilis*).

Hussakof, L. 1908 A, 16.

1909 B, 267.

1911 B, 124, pl. viii, fig. 2 (*Brontichthys clarki*, Clark's specimen).

Newberry, J. S. 1889 A, 165, pl. xiii, figs. 3-5; pls. xv, xvi.

Zittel and Schlosser 1923 A, 45, fig. 58.

Upper Devonian (Cleveland); Ohio.

DIPLOGNATHUS Newb. Type *D. mirabilis* Newb.

Hay, O. P. 1902 A, 348.

Abel, O. 1912 F, 487.

Dean, B. 1900 A, 26.

1901 C, 120.

Dean, Gudger, Henn 1923 A, 664.

Eastman, C. R. 1908 A, 181.

Hussakof, L. 1906 A, 122, 148.

Schlosser, M. 1917 A, 133.

Stensiö, E. A. 1925 B, 176 (*Diplognathus*).

Zittel and Koken 1911 A, 83.

Zittel and Schlosser 1923 A, 43.

Diplognathus mirabilis Newb.

Hay, O. P. 1902 A, 348.

Adams, L. A. 1919 A, 125, fig. 4.

Claypole, E. W. 1896 B, 351 ("*Diplognathus*").

1903 A, 320 (*D. mirabile*).

Eastman, C. R. 1907 B, 19.

1908 A, 285.

1909 C, 269.

Hussakof, L. 1906 A, 149, fig. 25.

1908 A, 14.

Jaekel, O. 1919 A, 80, fig. 7.

Koken, E. 1893 B, 172.

Woodward, A. S. 1922 B, 32, fig. 4.

Upper Devonian (Cleveland); Ohio.

DINOGNATHUS Hussakof. Type *D. ferox* Hussakof.

Hussakof, L. 1909 B, 268.

Eastman, C. R. 1909 A, 998.

1909 C, 264, fig. 2.

1917 A, 251 (Syn. ? of *Mylostoma*).**Dinognathus ferox** Hussakof.

Hussakof, L. 1909 B, 268, fig. 5.

Eastman, C. R. 1909 B, 997.

1909 C, 264.

1915 B, 440.

1917 A, 251, fig. 5 (Syn. ? of *Mylostoma terrelli*).

Upper Devonian (Cleveland shale); Ohio.

SELENOSTEIDÆ Dean.

Dean, B. 1901 C, 120.

Goodrich, E. S. 1909 A, 263.

Jordan, D. S. 1905 A, i, 587.

1923 A, 89.

SELENOSTEUS Dean. Type *S. kepleri* Dean = *S. brevis* (Claypole).

Dean, B. 1901 A, 94.

1901 C, 114, 120.

Hussakof, L. 1906 A, 122.

Selenosteus brevis (Claypole).Hay, O. P. 1902 A, 348 (*Titanichthys*).Abel, O. 1919 A, 100, fig. 59 (*S. kepleri*).Dean, B. 1901 A, 94, pls. v, vi; text-figs. 1, 2 (*S. kepleri*).Eastman, C. R. 1907 B, 19 (*S. kepleri*).1908 A, 285 (*S. kepleri*).Goodrich, E. S. 1909 A, 264, fig. 233 (*S. kepleri*).Hussakof, L. 1908 A, 17 (*S. kepleri*).

1911 B, 125, pl. viii, fig. 4.

Upper Devonian (Cleveland); Ohio.

Selenosteus sp. indet.

Hussakof and Bryant 1919 A, 19, 78, text-fig. 26. Upper Devonian (Portage); New York.

STENOSTEUS Dean. Type *S. glaber* Dean.

Dean, B. 1901 A, 89.

Dean, B. 1901 C, 120.

Hussakof, L. 1906 A, 148.

Jordan, D. S. 1920 C, 492 (Type "*S. glaberi*").

Stensiö, E. A. 1925 B, 173.

Stenosteus glaber Dean.

Dean, B. 1901 A, 89, pls. iii, iv.

Eastman, C. R. 1907 B, 19.

1908 A, 285.

Hussakof, L. 1908 A, 18.

Upper Devonian (Cleveland); Ohio.

Stenosteus pertenuis Branson.

Branson, E. B. 1911 B, 28, pl. i, figs. 8, 10, 11.

Devonian (Ohio shales); Ohio.

CALLOGNATHUS Newb. Type *C. regularis* Newb.

Hay, O. P. 1902 A, 338.

Dean, B. 1901 C, 120.

Callognathus regularis Newb.

Hay, O. P. 1902 A, 338.

Claypole, E. W. 1896 B, 353.

1903 A, 321 (*C. regularis*).

Hussakof, L. 1908 A, 6.

Upper Devonian (Cleveland); Ohio.

Callognathus serratus Newb.

Hay, O. P. 1902 A, 338.

Claypole, E. W. 1896 B, 353.

1903 A, 321.

Eastman, C. R. 1907 B, 17, 19.

1908 A, 282, 285.

Hussakof, L. 1908 A, 6.

Upper Devonian (Cleveland); Ohio: (Portage); New York.

Superorder DIPNEUSTA Haeckel.

Haeckel, E. 1868 A, 435, 441, 447.

Unless otherwise indicated the writers, as cited, use for this superorder the name *Dipnoi*.

Hay, O. P. 1902 A, 350.

Abel, O. 1912 F, 635 ("*dipneusten*").1914 C, 354 ("*dipneustes*").

1919 A, 33, 171, fig. 7.

1920 A, 336, 339, fig. 539 (*Dipneusti*).1921 A, 155 ("*dipneusten*").1926 C, 44 ("*dipneusten*").

Agar, W. E. 1907 A, 625.

Allis, E. P. 1909 A, 202 (*Dipneusta*).

1913 A, 324.

1915 A, 594 (*Dipneusti*).1922 A, 151 (*Dipneusti*).1923 B, 156 (*Dipneusti*).

Anderson, R. J. 1912 D, 250.

Anthony, R. 1912 A ("*dipnois*").

Arlt, T. 1907 D, 651.

1923 A, 700 ("*dipnoer*").Ayers, H. 1885 A, 479 ("*dipnoer*").1906 A, 77 (*Dipneusta*).

Baird, H. S. 1922 A, 115.

Baraldi, G. 1877 A, 28.

Bardeleben, K. 1896 A, 113 ("*dipnoer*").1901 A, 28 ("*dipnoer*").1903 A, 20 ("*dipnoer*").

1907 A, 37.

Barrell, J. 1915 B, 402, 406.

Beer, G. R. 1926 A, 303 (*Dipneusta*).

Belling, D. E. 1912 A, 69.

Boas, J. E. V. 1914 C, 231.

Boulenger, G. A. 1901 D, 29 (*Dipneusti*).1902 A, 150 (*Dipneusti*).Braus, H. 1901 B, 165, 194 ("*dipnoer*").1906 A ("*dipnoer*").

- Bridge, T. W. 1878 A, 730.
1897 A, 602.
1904 A, 505, 738.
- Brindley, H. H. 1900 A, 325 ("Dipnoans").
- Briquel, P. 1898 A, 14 (Dipneustes).
- Broili, F. 1904 A, 105 ("dipnoer").
- Bronn, H. G. 1849 A, 812, seq.
- Carter, J. T. 1905 A, 136, 139.
- Carus, V. 1875 A, 594.
- Case, E. C. 1915 A, 124 ("dipnoans").
1924 B, 7.
- Chamberlin, T. C. 1900 A, 411 ("dipnoans").
- Coekerell, T. D. A. 1911 A, 831 (Dipnoi or Dipneusti).
- Cope, E. D. 1871 T, 449, 450.
1885 BB, 64.
1891 B, 455.
1891 N, 10, 14.
- Coulon, L. 1903 A, 151 (Dipneustes).
- Cunningham, J. T. 1897 A, 488.
1912 A, 246, 253.
- Dames, W. 1899 B, 366.
- Dean, B. 1900 A, 22, 29.
1912 A, 227.
1916 A ("fishes").
- Dean, Gudger, Henn 1923 A, 677.
- Delafontaine, M. 1877 A, 266.
- Derjugin, K. 1910 A, 587.
1910 B, 208.
- Dollo, L. 1889 E, 153 (Dipneustes).
1906 B, 136, 137 (Dipneustes).
- Dombrowski, B. A. 1925 A, 79.
- Drüner, L. 1902 A, 438 ("dipnoer").
- Duméril, A. 1870 A, 427.
- Eastman, C. R. 1900 G, 287.
1901 C, 329.
1905 A, 50 (Dipneusti).
1906 A, 132 (Dipneusti).
1906 D, 1 (Dipneusti).
1907 B, 23, 88, 228 (Dipneusti).
1908 A, 62 (Dipnoi); 69, 157 (Dipneusti).
1911 A, 20 (Dipneusti).
1917 A, 245, 247.
- Eastman and Barbour 1902 A, 267 ("dipnoans").
- Ebner, V. 1896 A, 146 ("dipnoer").
- Edgeworth, F. H. 1925 A, 225.
- Frassetto, F. 1915 A.
- Fuchs, H. 1907 C, 26 ("dipnoer").
1908 C, 208 ("dipnoer").
1909 B, 165 ("dipnoer").
- Fürbringer, K. 1902 A ("dipnoer").
1904 A ("dipnoer").
- Gadow, H. 1896 A, 15.
1902 B, 359.
1910 A, 27.
- Gaskell, W. H. 1908 A, 23, 45, 148 ("dipnoans").
- Gaupp, E. 1898 B, 841, 865 ("dipnoer").
1901 B, 941 ("dipnoer").
1905 D, 920 ("dipnoer").
1906 B, 683.
- Gegenbaur, C. 1867 B, 382, 391.
1870 C, 425.
1879 A, 522 ("dipnoer").
- Gill, T. 1905 A, 658 (Dipnoi, Dipneusti).
1909 B, 838.
- Goodrich, E. S. 1904 A, 480, 503.
1908 A, 765, 767.
1909 A, 230, 238, 366.
- Goodrich, E. S. 1913 A, 80.
1924 A, 935.
- Gregory, W. K. 1904 A, 58.
1907 D, 447 (Dipneusti).
1911 A, 509 ("dipnoans").
1911 B, 582.
1912 D, 220.
1914 C, 267.
1915 D, 320, 348.
1920 A, 218.
1922 A, 9, 79 ("dipnoans," Dipnoi).
1927 G, 267 ("dipnoan fishes").
- Gregory and Adams 1915 A, 763.
- Haeckel, E. 1873 A, 512, 520, 586 (Dipneusta).
1893 A, xvi (Dipneusta).
- Hanson, F. B. 1919 B, 67 (Dipneusti).
- Hase, A. 1907 A, 658 ("dipnoer").
1913 A ("dipnoer").
- Hasse, C. 1893 B, 533.
1893 C, 91.
- Hatschek, B. 1889 B, 115 ("dipnoer").
- Heilprin, A. 1887 A, 302.
- Hertwig, O. 1892 A.
- Hilzheimer, M. 1913 A, 473 ("dipnoer").
- Hoernes, R. 1886 A, 557.
- Howes, G. B. 1894 A, 83.
1902 A, 525.
- Hubbs, C. L. 1919 A, 570 (Amphibioidei, part; Dipneusti).
- Hubrecht, A. A. W. 1908 A, 150.
- Huene, F. 1926 A, 260 ("dipnoer").
- Hussakof, L. 1906 A, 126 ("dipnoans").
1908 C, 313 ("dipnoans").
1910 B, 305 ("dipnoans").
- Huxley, T. H. 1859 D, 417.
1869 G, 453.
1876 E, 103, 121.
1881 A, 454.
1883 B, 570.
- Imms, A. D. 1904 A, 23.
- Jacobshagen, E. 1919 A, 75, 110.
1920 A, 88, 92, 95 ("dipnoer").
- Jaekel, O. 1901 A, 558, 559 ("dipnoer").
1902 B, 135 ("dipnoer").
1902 C, 610 ("dipnoer").
1902 E, 1115 ("dipnoer").
1903 F, 37 ("dipnoer").
1903 G, 389 ("dipnoer").
1906 D, 187 ("dipnoer").
1909 A, 198 ("dipnoer").
1911 A, 69, 77.
1927 A, 251 (Dipnoi).
1927 B, 338 ("dipnoer").
- Jaquet, M. 1898 B, 320, pls. xxv-xxix (Protopterus).
- Jordan, D. S. 1903 A, 136 ("dipnoans").
1905 A, i, 609; ii, 566 (Dipneusti).
1907 B, 225, 235, 760 (Dipneusti).
1923 A, 110.
- Kathariner, L. 1899 A, 345 ("dipnoer").
- Kehrer, F. A. 1896 A, 351.
- Keith, A. 1911 A, 294.
- Kellicott, W. E. 1905 A, 137.
- Kerr, J. G. 1900 A, 233.
1900 B, 299.
1901 A, 694 ("dipnoans").
1908 A, 169 ("dipnoans").
1908 B, 170.

- Keyes, C. 1922 A, pl. iii (Dipnoia).
1923 A, 113.
- Kingsbury, B. F. 1895 A, 132.
- Kingsley, J. S. 1885 B, 299.
1900 A, 249.
1901 B, 338.
1925 A, 13, 35, 115, 240.
- Klaatsch, H. 1893 B, 654.
1893 C, 148, 181.
- Koken, E. 1893 B, 252 ("dipnoer").
- Krall, A. 1908 A, 578 ("dipnoer").
- Lakjer, T. 1927 A ("dipnoer").
- Leunis and Ludwig 1883 A, 777.
- Lönberg, E. 1901 A.
1902 A.
- Lubosch, W. 1911 B, 741, 748 ("dipnoer").
- Lull, R. S. 1917 B, 485, 488 (Dipneusti).
- Luther, A. 1913 B, 33, 61 (Dipneusti).
- Lütken, C. 1871 A, 291 ("diptériens").
- Mayhew, R. L. 1924 A, 331.
- Meek, A. 1916 A, 55.
- Miall, L. C. 1872 A, 39.
- Mollier, S. 1897 A, 3 ("dipnoer").
- Müller, J. 1845 A, 135.
- Nauk, E. T. 1926 B, 72 ("dipnoer").
- Osborn, H. F. 1905 N, 235.
1916 E, 605.
1917 B, 311.
- Osburn, R. C. 1907 A, 424.
1907 B, 181.
- Oswald, F. 1911 A, 409.
- Paramore, R. H. 1910 A, 1393.
- Parker, W. K. 1879 C, 338.
1887 B, 54.
1888 C, 399.
1890 A, 62.
- Parker and Haswell 1897 A, 229.
- Pehrson, T. 1922 A.
- Perret, A. 1900 A, 786 ("dipneustes").
- Petronievics, B. 1919 A, 411 ("dipneustes").
- Pompeckj, J. F. 1913 A, 1133.
- Prien, F. 1908 B, 6 ("dipneustes").
- Rabl, C. 1901 A, 489 ("dipnoer").
- Rauther, M. 1913 A, 1099.
- Regan, C. T. 1904 A, 330, 331, 339 (Dipneusti).
1909 B, 75, 76 (Dipneusti).
- Reynolds, S. H. 1897 A, 105, 106, 539 (Dipneusta).
- Ridewood, W. G. 1896 A, 386.
- Röse, C. 1892 F, 399 ("dipnoer").
- Romer, A. S. 1924 A, 121.
- Rosén, N. 1916 A, 23.
- Ryder, J. 1885 E, 91, 93.
1886 A, 71.
- Sabatier, A. 1904 A, 249 ("dipneustes").
- Sagemehl, M. 1883 A ("dipnoer").
1884 A ("dipnoer").
- Sauvage, H. E. 1899 A, 6 ("dipnoiques").
- Schauinsland, H. 1906 A, 483 ("dipneusten").
- Schlosser, M. 1917 A, 133, 139, 146 ("dipnoer").
- Schmalhausen, J. J. 1913 A, 47 ("dipnoer").
1913 B, 757 ("dipnoer").
1913 C.
1916 A, 65.
1916 B, 147.
1917 A, 108.
- Schmalhausen, J. J. 1923 B, 543.
- Schneider, A. 1887 A, 97, pl. xi (Dipneusti).
- Schöne, G. 1902 A, 1 ("dipnoer").
- Schuchert, C. 1915 A, 687.
- Schuchert and Levene 1927 A, 285 ("lung-fishes").
- Semon, R. 1898 A, 100 ("dipnoer").
1899 B, 295 ("dipnoer").
1901 A, 180, 184 ("dipnoer").
1901 B, 130 ("dipnoer").
- Sewertzoff, A. N. 1902 A, 593 ("dipnoer").
1918 A, 207.
1926 A, 507, 534 (Dipnoi, Dipneusta).
1926 C, 44 ("dipneusten").
1926 D, 26 (Dipneusta).
1926 F, 274.
- Shann, E. W. 1919 A, 532.
- Simpson, G. G. 1926 J, 173.
- Smith, G. E. 1911 A, 293.
1912 A, 426.
- Solger, B. 1880 A, 365 ("dipnoer").
- Sollas, W. J. 1920 A, 525.
- Sollas and Sollas 1903 A, 287.
- Stannius, H. 1854 A, 7, seq.
- Steinmann, G. 1907 A, 407.
1927 A, 76 ("dipnoer").
- Stensiö, E. A. 1921 A, 135.
1925 A, 131, 182.
1925 B, 161, 187.
- Steihan, P. 1900 A, 307 ("dipnoiques").
- Stromer, E. 1912 A, 27.
1920 A, 12.
1925 B, 348.
- Susehkin, P. P. 1910 A, 248 ("dipnoer").
- Terra, P. 1911 A, 220.
- Thevenin, A. 1910 A, 35 (Dipneustes).
- Traquair, R. H. 1878 A, 12.
1880 A, 159.
1900 C, 505.
- Ussow, S. 1900 A, 182.
- Vanhoffen, E. 1891 A, 134 ("dipnoer").
- Vogel, R. 1909 A, 501 ("dipnoer").
- Wallace, A. R. 1876 A, ii, 458.
- Watson, D. M. S. 1913 D, 26.
1925 A, 849.
1926 A, 190, 194.
- Watson and Gill 1923 A, 163.
- Wiedersheim, R. 1880 C, 122 ("dipnoer").
1892 A, 45 ("dipnoer").
- Williston, S. W. 1912 E, 258.
- Winslow, G. M. 1898 A, 149, 191.
- Wintrebert, P. 1910 B, 79 ("dipneustes").
- Woodward, A. S. 1898 E, 329 ("dipnoan fishes").
1906 C, 274.
1909 A, 323 ("dipnoans").
1910 B, 464 ("dipnoans").
1915 B, lxx.
1922 B, 27 (Dipneusti).
1922 C, 77.
1924 A, 114.
- Woodward, H. 1904 B, 141.
- Wright, W. 1909 A, 671.
- Zittel and Koken 1911 A, 73.
- Zittel and Schlosser 1923 A, 78.
- Zittel and Woodward. 1902 A, 61.

Order DIPTEROMORPHI, new name.

- Hay, O. P. 1902 A, 351. (Ctenodipterini).
 Arldt, T. 1907 D, 648 (Ctenodipterini).
 Barrell, J. 1915 B, 402 (Ctenodipterini).
 Briquel, P. 1898 A, 16 (Ctenodipterini).
 Eastman, C. R. 1906 A, 142 ("ctenodipterines").
 1906 D, 6 ("ctenodipterines").
 1907 B, 23, 94, 157 (Ctenodipterini).
 1908 A, 69, 158, 207 (Ctenodipterini).
 1909 C, 269 ("ctenodipterines").
 Gregory, W. K. 1907 D, 447 (Ctenodipterini).
 Hilzheimer, M. 1913 A, 473 (Ctenodipterini).
 Hoernes, R. 1886 A, 550 (Ctenodipteridæ).
- Huxley, T. H. 1861 D, 440, 444 (Ctenodipterini).
 Jaekel, O. 1911 A, 77 (Dipteri).
 Jordan, D. S. 1905 A, i, 612 (Ctenodipterini).
 1907 B, 238, 760 (Ctenodipterini).
 1923 A, 110 (Ctenodipterini).
 Klaatsch, H. 1890 A, 223 ("ctenodipterinen").
 Semon, R. 1901 B, 130 ("ctenodipterinen").
 Traquair, R. H. 1878 A, 12 (Ctenodipterini).
 1880 A, 155, 159 (Ctenodipterini).
 Zittel and Woodward 1902 A, 61 (Ctenodipterini).

DIPTERIDÆ Owen.

- Owen, R. 1846 E, 50.
 Hay, O. P. 1902 A, 351.
 Agassiz, L. 1844 D, 142 ("dipteriens").
 Bronn, H. G. 1849 A, 780, seq. (Dipterini).
 Cope, E. D. 1891 N, 15.
 Dean, Gudger, Henn 1923 A, 401.
 Eastman, C. R. 1907 B, 23, 159.
 1908 A, 210 (Ctenodontidæ).
 Goodrich, E. S. 1908 A, 765.
 1909 A, 256.
- Jordan, D. S. 1905 A, i, 612.
 1907 B, 226, 760.
 1923 A, 110.
 Reynolds, S. H. 1897 A, 70, 111, 117, 124.
 Schlosser, M. 1917 A, 133 ("dipteriden").
 Sewertzoff, A. N. 1923 B.
 Stromer, E. 1905 H, 216.
 Zittel and Koken 1911 A, 73.
 Zittel and Schlosser 1923 A, 79.

DIPTERUS Sedgw. and Murch. Type *D. valenciennesi* Sedgw. and Murch.

- Hay, O. P. 1902 A, 351.
 Abel, O. 1907 D, (162).
 1919 A, 33, 180, figs. 7, 129-135.
 1920 A, 340, fig. 509.
 Agassiz, L. 1832 A, 140.
 1833 A, 471 (Catopterus).
 1835 B, 342.
 1835 H, 204 (Catopterus).
 1839 A, 599.
 1877 A, 124.
 Allis, E. P. 1905 A, 487.
 Arldt, T. 1923 A, 701.
 Atthey, T. 1868 C, 354.
 Barkas, W. J. 1874 D, 550.
 Berry, E. W. 1925 A, 358.
 Böklen, H. 1887 A, 78.
 Bridge, T. W. 1897 A, 603.
 1904 A, 506, fig. 301.
 Briquel, P. 1898 A, 14.
 Bronn, H. G. 1848 A, 428.
 1849 A, 655.
 Calvin, S. 1897 B, 17.
 Coulon, L. 1903 A, 153.
 Cunningham, J. T. 1912 A, 254, fig. 23.
 Dean, B. 1907 A, 48.
 Dean, Gudger, Henn 1923 A, 625.
 Delafontaine, M. 1877 A, 268.
 Derjugin, K. 1910 B, 208.
 Eastman, C. R. 1905 A, 54, fig. 7.
 1906 A, 131.
 1907 B, 159, 193, 229, fig. 34.
 1908 A, 210, 231, figs. 33, 34.
 1911 A, 16, fig. 4.
 1915 A, 282.
 1917 A, 245.
 Etheridge, R. 1906 A, 131.
 Giebel, C. G. 1855 A, 113.
 Goodrich, E. S. 1904 A, 503, 506, fig. 6.
 1908 A, 765, 767.
- Goodrich, E. S. 1909 A, 509, figs.
 Gregory, W. K. 1915 D, 323, fig. 1.
 Heilprin, A. 1887 A, 149, 301.
 Hussakof, L. 1908 C, 312.
 1910 B, 305.
 Huxley, T. H. 1861 D, 434, figs. 9, 10.
 1876 E, 121.
 1876 F, 166.
 Jaekel, O. 1911 A, 77, fig. 80.
 Jordan, D. S. 1905 A, i, 612; ii, 567.
 1907 B, 238.
 Jordan and Evermann 1917 A, 125.
 Kerr, J. G. 1900 B, 299.
 Kiaer, J. 1924 A, 93, fig. 40.
 Lankester, E. R. 1905 A, 250, fig. 182.
 Lull, R. S. 1917 B, 485.
 Miall, L. C. 1872 A, 40.
 Müller, H. 1851 A, 92.
 Müller, J. 1845 A, 93.
 Murchison, R. I. 1845 A, 252, fig. 49.
 Osborn, H. F. 1916 E, 605, fig. 14.
 1917 B, 170, fig.
 Petronievics, B. 1919 A, 407, 411.
 Pompeckj, J. F. 1913 A, 1133, fig. 39.
 Regan, C. T. 1904 A, 339.
 Ridewood, W. G. 1896 A, 338.
 Schlosser, M. 1898 D, 121.
 Schmalhausen, J. J. 1913 A, 75.
 Semon, R. 1901 A, 181.
 1901 B, 125, figs. e-i.
 Sewertzoff, A. N. 1923 B, 140.
 1924 A, 579.
 1926 A, 523, 534.
 1926 C, 44.
 1926 D, 80, 89.
 Stensiö, E. A. 1921 A, 136.
 1925 A, 182.
 1925 B, 162.
 Stromer and Peyer 1917 A, 37.

- Suschkin, P. P. 1910 A, 249.
 Traquair, R. H. 1880 A, 151, 159.
 1889 D, 97, pl. ii.
 1898 B, 46.
 1900 C, 505.
 Watson, D. M. S. 1916 B, 28, pl. i, fig. 1; text-figs. 6, 8, 9.
 1917 A, 979.
 1926 A, 195, figs. 2, 3.
 Watson and Day 1916 A, 28, text-figs. 6, 8, 9.
 Watson and Gill 1923 A, 168-215, figs. 32-34.
 Woodward, A. S. 1910 B, 467.
 1915 B, lxx.
 1922 C, 77, fig. 78.
 Zittel and Koken 1911 A, 74.
 Zittel and Schlosser 1923 A, 79, figs. 135, 136.

Dipterus angustus Newberry.

- Hay, O. P. 1902 A, 354 (Sagenodus).
 Eastman, C. R. 1907 B, 22.
 1908 A, 212, 289.
 1917 A, 247, pl. viii, fig. 5.
 Hussakof, L. 1908 A, 53 (Sagenodus).
 Upper Devonian (Catskill or Chemung); Pennsylvania.

Dipterus calvini Eastman.

- Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 16, 160, 229, pl. iv, fig. 1.
 1908 A, 49, 213, 219, 279, pl. ii, fig. 1.
 Middle Devonian (Cedar Valley); Iowa.

Dipterus contraversus Hay.

- Hay, O. P. 1902 A, 351.
 Claypole, E. W. 1903 A, 320 (D. radiatus).
 Eastman, C. R. 1907 B, 22.
 1908 A, 212, 289.
 Hussakof, L. 1908 A, 51.
 Upper Devonian (Catskill); Pennsylvania.

Dipterus costatus Eastman.

- Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 20, 161, 229, pl. iv, fig. 9.
 1908 A, 213, 220, 286, pl. ii, fig. 8.
 Upper Devonian (State Quarry); Iowa.

Dipterus digitatus Eastman.

- Eastman, C. R. 1908 A, 213, 221, pl. ii, fig. 6; pl. vii, figs. 16-25.
 Branson, E. B. 1914 A, 65, pl. iv, fig. 21.
 Eastman, C. R. 1908 A, 286.
 1915 A, 282, fig. 2.
 1917 A, 246.
 Upper Devonian (State Quarry); Iowa, Missouri, Colorado.

Dipterus eastmani Stauffer.

- Stauffer, C. R. 1909 A, 151, 182, 196, pl. xvii, figs. 14-17.
 Middle Devonian (Columbus); Ohio.

Dipterus flabelliformis Newb.

- Hay, O. P. 1902 A, 351.
 Butts, C. 1903 A, 991 (Ctenodus).
 Claypole, E. W. 1903 A, 319.

- Eastman, C. R. 1907 B, 21, 163.
 1908 A, 214, 221.
 Hussakof, L. 1906 A, 150.
 1908 A, 51.
 Devonian (Chemung); Pennsylvania.

Dipterus fleisheri (Newb.).

- Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 22, 162, 229, pl. vii, fig. 2.
 1908 A, 212, 225, 289, pl. ii, fig. 16.
 Hussakof, L. 1908 A, 52.
 Upper Devonian (Catskill); Pennsylvania, New York.

Dipterus gemmatus Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 15, 170, pl. lv, fig. 2.
 Upper Devonian (Genesee); New York.

Dipterus ithacensis Williams.

- Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 18, 163.
 1908 A, 212, 213, 282.
 Upper Devonian (Portage); New York.

Dipterus minutus Newb.

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 21, 163.
 1908 A, 214, 288.
 Upper Devonian (Chemung); Pennsylvania.

Dipterus mordax Eastman.

- Hay, O. P. 1902 A, 352.
 Branson, E. B. 1922 A, 6, 35, 128, pl. xxi, fig. 11.
 Eastman, C. R. 1907 B, 20, 161, 229, pl. iv, figs. 5, 6.
 1908 A, 213, 215, 220, 286, pl. ii, figs. 4, 5; pl. vii, figs. 5-9.
 1915 A, 282, fig. 3.
 1917 A, 246.
 Upper Devonian (State Quarry); Iowa; Devonian (Callaway); Missouri; Devonian; Colorado.

Dipterus nelsoni Newb.

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 319 (D. nelsoni), p. 320 (D. levis).
 Eastman, C. R. 1907 B, 21, 163, 229 (D. alleghaniensis, D. levis as syns.).
 1908 A, 213, 214, 223, 288, pl. ii, fig. 11; pl. vii, figs. 1-4 (D. levis a syn.).
 Hussakof, L. 1906 A, 150.
 1908 A, 52.
 Upper Devonian (Chemung); Pennsylvania, New York.

Dipterus pectinatus Eastman.

- Eastman, C. R. 1908 A, 213, 222, 286, pl. ii, figs. 2, 7; pl. vii, figs. 10-15.
 Eastman, C. R. 1915 A, 282, fig. 4.
 1917 A, 246.
 Upper Devonian (State Quarry); Iowa; Devonian; Colorado.

Dipterus quadratus (Newb.).

- Hay, O. P. 1902 A, 355 (Sagenodus).
 Eastman, C. R. 1902 B, 97 (Sagenodus).
 1902 G, 541 (Sagenodus).
 1903 B, 194 (Sagenodus).
 1907 B, 163.
 1908 A, 214.
 Hussakof, L. 1916 A, 131 ("Rhizodus quadratus").
 Pennsylvanian; Ohio, Illinois.

Dipterus sherwoodi Newb.

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 22, 162.
 1908 A, 212, 226, 289.
 Hussakof, L. 1908 A, 52.
 Upper Devonian (Catskill); Pennsylvania.

Dipterus uddeni Eastman.

- Hay, O. P. 1902 A, 352.
 Eastman, C. R. 1907 B, 16, 160, 229, pl. iv, figs. 3, 4.
 1908 A, 213, 218, 279, pl. ii, fig. 3.
 Hussakof, L. 1908 A, 53.
 Middle Devonian (Cedar Valley); Iowa.

Dipterus sp. indet.

- Clarke, J. M. 1913 A, 98. Lower Devonian; New Brunswick.
 Eastman, C. R. 1907 B, 164, pl. iv, figs. 2, 7, 8, 12. Upper Devonian (State Quarry); Iowa.
 1908 A, 279. Middle Devonian (Cedar Valley); Iowa.
 Hussakof and Bryant 1919 A, 15, 171. Upper Devonian (Genesee); New York.

PALÆDAPHUS Van Beneden and de Koninck. Type *P. insignis* Van B. and de K.

- Hay, O. P. 1902 A, 352.
 Arltdt, T. 1923 A, 701.
 Barkas, W. J. 1874 D, 547.
 Gervais, P. 1852 A, explan. pl. lxxvii.
 1859 A, 558, pl. lxxvii.
 Jordan, D. S. 1923 A, 110.
 Woodward, A. S. 1890 F, 147.
 Zittel and Koken 1911 A, 74.
 Zittel and Schlosser 1923 A, 80, fig. 137.
 Zittel and Woodward 1902 A, 63.

Palædaphus lesleyi (Newb.).

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 319 (Heliodus).
 Eastman, C. R. 1907 B, 21 (Heliodus).
 1908 A, 213, 288 (Heliodus).
 1909 B, 997 (Heliodus).
 1909 C, 269 (Heliodus).
 Hussakof, L. 1908 A, 53.
 Devonian (Chemung); Pennsylvania.

CONCHODUS M'Coy. Type *C. ostreæformis* M'Coy.

- Hay, O. P. 1902 A, 352.
 Böklen, H. 1887 A, 78.
 Eastman, C. R. 1908 A, 227.
 Traquair, R. H. 1878 A, 16.
 Zittel and Koken 1911 A, 74.

Conchodus plicatus Dawson.

- Hay, O. P. 1902 A, 352.
 Eastman, C. R. 1908 A, 234.
 Lambe, L. M. 1904 C, 42.
 Coal Measures; Nova Scotia.

Conchodus variabilis Eastman.

- Eastman, C. R. 1908 A, 213, 230, 286, pl. viii, except figs. 16, 20, 29, 34.
 Branson, E. B. 1914 A, 65, pl. iii, fig. 8.
 Upper Devonian (State Quarry); Iowa: (Craghead); Missouri.

Conchodus sp. indet.

- Bell, W. A. 1913 A, 340, Pennsylvanian (Joggins); Nova Scotia.

GANORHYNCHUS Traquair. Type *G. woodwardi* Traquair.

- Hay, O. P. 1902 A, 352.
 Etheridge, R. 1906 A, 129.
 Traquair, R. H. 1874 A, 211.

Ganorhynchus beecheri Newb.

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 321.
 Eastman, C. R. 1907 B, 21, 22.
 1908 A, 213, 288.
 Upper Devonian (Chemung, Catskill); Pennsylvania.

Ganorhynchus oblongus Cope.

- Hay, O. P. 1902 A, 352.
 Hussakof, L. 1908 A, 53, fig. 24.
 Devonian (Catskill); Pennsylvania.

Ganorhynchus sp. indet.

- Eastman, C. R. 1908 A, 213. Upper Devonian (Cedar Valley); Iowa.

PHANEROPLEURIDÆ.

- Hay, O. P. 1902 A, 352.
 Abel, O. 1919 A, 33, fig. 7 (Phaneropleuron).
 Böklen, H. 1887 A, 78 (Phaneropleuron).
 Briquel, P. 1898 A, 14 (Phaneropleuron).
 Goodrich, E. S. 1908 A, 767, fig. 201 (Phaneropleuron).
 1909 A, 255.

- Hoernes, R. 1886 A, 550.
 Jordan, D. S. 1905 A, i, 612; ii, 586 (Phaneropleuron).
 1907 B, 238 (Phaneropleuron).
 1923 A, 110.
 Klaatseh, H. 1890 A, 221 ("phaneropleurinen").
 Matthew, W. D. 1907 A, 9 (Phaneropleuron).

- Schlosser, M. 1917 A, 133 ("phaneropleuriden").
 Traquair, R. H. 1871 A, 534 (Phaneropleurini).
 1872 A, 41, fig. (Phaneropleuron).
 Traquair, R. H. 1893 C, 265.
 Zittel and Koken 1911 A, 74.
 Zittel and Schlosser 1923 A, 81.

SCAUMENACIA Traquair. Type *S. cura* (Whiteaves).

- Hay, O. P. 1902 A, 353.
 Abel, O. 1919 A, 33, 180, fig. 7.
 1921 A, 249.
 Clark, J. M. 1911 A, 128.
 Dean, B. 1907 A, 48.
 Eastman, C. R. 1908 A, 235.
 Goodrich, E. S. 1904 A, 503.
 1909 A, 233, 255, fig. 227.
 Gregory, W. K. 1915 D, 323.
 Hussakof, L. 1912 B, 134.
 Lambe, L. M. 1904 C, 16.
 Matthews, G. F. 1907 A, 9 (Phaneropleuron).
 Petronievics, B. 1919 A, 412.
 Schmalhausen, J. J. 1913 B, 757.
 1913 C.
 Stensiö, E. A. 1925 A, 182.
 1925 B, 162.
 Traquair, R. H. 1900 C, 506.
 Watson, D. M. S. 1916 B, 33.
 Watson and Day 1916 A, 39.
 Watson and Gill 1923 A, 212.
 Whiteaves, J. F. 1907 B, 252.
 Zittel and Schlosser 1923 A, 81.

Scaumenacia curta (Whiteaves).

- Hay, O. P. 1902 A, 353.
 Abel, O. 1912 F, 636, fig. 470.
 1919 A, 179, figs. 7, 137.
 1920 A, 340, fig. 539.
 Clarke, J. M. 1913 A, 113.
 Claypole, E. W. 1883 C, 278 (Phaneropleuron).
 Eastman, C. R. 1907 B, 17.
 1908 A, 213, 235, 280, fig. 35.
 1917 A, 247, fig. 2.
 Gregory, W. K. 1915 D, 323, fig. 1.
 Hussakof, L. 1912 B, 134, pls. ii, iii; text-figs. 3-6.
 Hussakof and Bryant 1919 A, 171, pl. lvii, figs. 3, 4; text-fig. 57.
 Lambe, L. M. 1904 C, 34, 42.
 1912 A, 5.
 Matthew, G. F. 1907 A, 9 (Phaneropleuron).
 Pompeckj, J. F. 1913 A, 1134, fig. 40.
 Traquair, R. H. 1900 C, 506.
 Whiteaves, J. F. 1907 B, 253, pl. iii.
 Zittel and Schlosser 1923 A, 81, fig. 138.
 Upper Devonian (Scaumenac); Quebec.

CTENOPLEURON Matthew. Type *C. nerepisense* Matthew, G. F.

- Matthew, G. F. 1907 A, 7.
 Stromer, E. 1920 A, 11.
 Woodward, A. S. 1915 B, lxiii.

Ctenopleuron nerepisense Matthew, G. F.

- Matthew, G. F. 1907 A, 7, plate.
 Kiaer, J. 1924 A, 124, 134.
 Woodward, A. S. 1910 D, 31.
 Silurian (Clinton); New Brunswick.

Order CERATODONTOMORPHI, new name.

- Hay, O. P. 1902 A, 353 (Sirenoidei).
 Agar, W. E. 1906 A (Lepidosiren).
 1907 A (Lepidosiren).
 Arltdt, T. 1907 D, 682 (Sirenoidea).
 Bischoff, T. L. W. 1840 B, 116, pls. vi-x (Lepidosiren).
 Carus, V. 1875 A, 594 (Sirenoidei).
 Cope, E. D. 1891 N, 14 (Sirenoidei).
 Eastman, C. R. 1906 D, 20 ("sirenoids").
 1907 B, 23, 234 (Sirenoidei).
 1908 A, 69 (Sirenoidei).
 Edwards, A. M. 1840 A, 159 (Lepidosiren).
 Gill, T. 1909 B, 838 (Sirenoidei).
 Gregory, W. K. 1907 D, 447 (Sirenoidei).
 Jordan, D. S. 1905 A, i, 612, 613 (Sirenoidei).
 1907 B, 238, 239, 760 (Sirenoidei).
 1923 A, 110 (Sirenoidei).
 Kerr, J. G. 1901 B, 1 (Lepidosiren).
 1902 A, 417 (Lepidosiren).
 Kingsley, J. S. 1885 B, 300 (Dipneumona).
 Lönnberg, E. 1902 A (Lepidosiren).
 Owen, R. 1839 C, 327, pls. xxiii-xxvii (Lepidosiren).
 Reynolds, S. H. 1897 A, 34, 70 (Sirenoidei).
 Steinmann, G. 1907 A, 407 (Sirenoidea).
 Traquair, R. H. 1878 A, 12 (Sirenoidei).
 Wallace, A. R. 1876 A, ii, 458 (Sirenoidei).
 Woodward, A. S. 1922 C, 77 (Sirenoidei).
 Zittel and Woodward 1902 A, 64 (Sirenoidei).

CTENODONTIDÆ.

- Hay, O. P. 1902 A, 353.
 Arltdt, T. 1912 A, 648, 658.
 1923 A, 700 ("ctenodontiden").
 Bridge, T. W. 1904 A, 505.
 Cockerell, T. D. A. 1913 B, 121.
 Cope, E. D. 1891 N, 15.
 Eastman, C. R. 1907 B, 23.
 1908 A, 210.
 Goodrich, E. S. 1909 A, 257.
 Gregory, W. K. 1907 D, 447.
 Jordan, D. S. 1905 A, i, 613.
 1907 B, 239, 760.
 1923 A, 110.
 Pompeckj, J. F. 1913 A, 1134.
 Schlosser, M. 1917 A, 134 ("ctenodontiden").
 Schmalhausen, J. J. 1913 A, 76.
 Zittel and Koken 1911 A, 75, 76.
 Zittel and Schlosser 1923 A, 81.
 Zittel and Woodward 1902 A, 62.

CTENODUS Agassiz. Type *C. cristatus* Agassiz.

- Hay, O. P. 1902 A, 353.
 Abel, O. 1912 F, 491.
 1919 A, 33, 181, fig. 7.
 Arltdt, T. 1907 D, 339.
 1923 A, 701.
 Atthey, T. 1868 C, 354.
 Barkas, W. J. 1874 D, 550.
 Bridge, T. W. 1897 A, 602.
 Case, E. C. 1908 C, 576.
 1926 B, 196.
 Deecke, W. 1913 A, 73.
 Etheridge, R. 1906 A, 130.
 Eastman, C. R. 1906 A, 132.
 1908 A, 211.
 Giebel, C. G. 1855 A, 115.
 Goodrich, E. S. 1904 A, 504.
 1909 A, 239, fig. 209.
 Gregory, W. K. 1915 D, 323.
 Hussakof, L. 1908 C, 312.
 1910 B, 306.
 Jaekel, O. 1902 E, 1078.
 Jordan, D. S. 1905 A, i, 613.
 1907 B, 239.
 1919 B, 191.
 Kiaer, J. 1924 A, 93, fig. 40.
 Koken, E. 1893 B, 252.
 Miall, L. C. 1875 D, 436.
 Moodie, R. L. 1923 B, 297.
 Owen, R. 1849 D, 42.
 Petronievies, B. 1919 A, 412.
 Pompeckj, J. F. 1913 A, 1135.
 Priem, F. 1908 B, 7.
 Ridewood, W. G. 1896 A, 388.
 Sewertsoff, A. N. 1923 B.
 Stromer and Peyer 1926 A, 534.
 1917 A, 38.
 Traquair, R. H. 1878 A, 3.
 1878 B, 483.
 Watson and Day 1916 A, 31, 40, text-fig. 8.
 Watson and Gill 1923 A, 163-215, figs. 8, 11, 12, 21-28.
 Woodward, A. S. 1922 C, 78, fig. 79.
 1924 A, 114.
 Woodward, H. 1904 B, 141.
 Zittel and Koken 1911 A, 75.
 Zittel and Schlosser 1923 A, 81, fig. 139.
 Zittel and Woodward 1902 A, 63.

Ctenodus wagneri Newb.

- Hay, O. P. 1902 A, 353.
 Claypole, E. W. 1903 A, 319.
 Eastman, C. R. 1907 B, 19.
 1908 A, 212, 213, 285.
 Hussakof, L. 1908 A, 51.
 Upper Devonian (Cleveland); Ohio.

Ctenodus sp. indet.

- Eastman, C. R. 1902 B, 97. Pennsylvanian (Mazon Creek); Illinois.
 1903 B, 194. Pennsylvanian (Mazon Creek); Illinois.

SAGENODUS Owen. Type *S. inaequalis* Owen.

- Hay, O. P. 1902 A, 353.
 Abel, O. 1919 A, 181.
 Atthey, T. 1868 C, 357 (Sagenodus).
 Bronn, H. G. 1849 A, 649 (Ctenodus).
 Case, E. C. 1926 B, 196.
 Cockerell, T. D. A. 1911 C, 126.
 1913 B, 121.
 Delafontaine, M. 1877 A, 268 (Ctenodus).
 Dollo, L. 1896 A.
 Eastman, C. R. 1903 C, 493.
 Hussakof, L. 1911 A, 163.
 Jordan, D. S. 1905 A, i, 613.
 1907 B, 239.
 Stromer and Peyer 1917 A, 36.
 Watson, D. M. S. 1916 B, 37, pl. iii, fig. 9.
 Watson and Day 1916 A, 41.
 Watson and Gill 1923 A, 163-215, figs. 1-12 14-20.
 Zittel and Koken 1911 A, 76.
 Zittel and Schlosser 1923 A, 82.
 Zittel and Woodward 1902 A, 64.
- Sagenodus copeanus** Williston.
 Hay, O. P. 1902 A, 354.
 Abel, O. 1919 A, 180, fig. 139 (S. eopei).
 Eastman, C. R. 1903 B, 186.
 Zittel and Schlosser 1923 A, 82, fig. 140 (S. eopei).
 Zittel and Koken 1911 A, 76, fig. 134 (S. copei).
 Pennsylvanian (Missourian); Kansas.
- Sagenodus cristatus** Eastman.
 Eastman, C. R. 1903 B, 188, 194, pl. iii, fig. 30.
 Pennsylvanian (Mazon Creek); Illinois.
- Sagenodus dialophus** (Cope).
 Hay, O. P. 1902 A, 354.
 Beede, J. W. 1907 A, 119 (Ctenodus).
 Case, E. C. 1915 A, 96.
 Hussakof, L. 1911 A, 163, pl. xxvi, figs. 6, 7.
 Permian (Wichita, Clear Fork); Texas: (Enid); Oklahoma.
- Sagenodus foliatus** Cope.
 Hay, O. P. 1902 A, 354.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Merrill, G. P. 1907 A, 18.
 Pennsylvanian (Mazon Creek); Illinois.
- Sagenodus fossatus** (Cope).
 Hay, O. P. 1902 A, 354 (S. fossatus, S. gurleyanus, S. porrectus); 355 (S. vabasensis).
 Beede, J. W. 1907 A, 119 (Ctenodus).
 Case, E. C. 1900 A, 705, pl. i, fig. 7 (S. vabasensis); fig. 8 (S. gurleyanus); fig. 10 (S. fossatus).
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 7, 8.
 Hussakof, L. 1908 A, 54, fig. 26 (S. porrectus).
 1911 A, 163, pl. xxvi, figs. 8-11, pl. xxvii, figs. 1-3.
 1916 A, 131 (S. gurleyanus, S. porrectus, S. vabasensis as syns.).
 Permian; Illinois.

Sagenodus heterolophus (Cope).

- Hay, O. P. 1902 A, 354.
 Case, E. C. 1900 A, 706.
 Hussakof, L. 1911 A, 164, pl. xxvii, fig. 6.
 Permian; Illinois.

Sagenodus jugosus Hay.

- Hay, O. P. 1902 A, 354. Pennsylvanian; Ohio.

Sagenodus lacovianus Cope.

- Hay, O. P. 1902 A, 354.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Pennsylvanian (Mazon Creek); Illinois.

Sagenodus occidentalis (Newb. and Worth.).

- Hay, O. P. 1902 A, 354.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Merrill, G. P. 1907 A, 18 (S. browniæ); 19 (S. occidentalis).
 Pennsylvanian; Illinois, Ohio.

Sagenodus ohioensis (Cope).

- Hay, O. P. 1902 A, 354 (S. ohionensis).
 Hussakof, L. 1916 A, 129, fig. 2 (S. ohioensis).
 Pennsylvanian; Ohio.

Sagenodus paucicristatus (Cope).

- Hay, O. P. 1902 A, 354.
 Case, E. C. 1900 A, 707, pl. i, fig. 11.
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 9.
 Hussakof, L. 1911 A, 164, pl. xxvii, fig. 4.
 Pennsylvanian (Upper); Illinois.

Sagenodus periprion (Cope).

- Hay, O. P. 1902 A, 354.
 Beede, J. W. 1907 A, 119 (Ctenodus).
 Case, E. C. 1915 A, 96.
 Hussakof, L. 1911 A, 165, pl. xxvii, fig. 5.
 Permian (Wichita? Clear Fork?); Texas.

GNATHORHIZA Cope.

- Hay, O. P. 1902 A, 355.
 Case, E. C. 1908 C, 579.
 Hussakof, L. 1911 A, 166.

Gnathorhiza pertenuis (Eastman).

- Eastman, C. R. 1903 C, 493, figs. 1, 2 (Sagenodus).
 Broili, F. 1904 A, 105 (Sagenodus).
 Case, E. C. 1908 C, 579 (Sagenodus).
 Eastman, C. R. 1906 D, 8 (Sagenodus).
 Hussakof, L. 1908 A, 53 (Sagenodus. Syn.? of G. pusilla).
 1911 A, 167 (Syn. of G. pusilla).
 Permian (Cimarron); Texas.

Gnathorhiza pusilla (Cope).

- Hay, O. P. 1902 A, 355 (Sagenodus).

Sagenodus quincunciatus Cope.

- Hay, O. P. 1902 A, 355.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Merrill, G. P. 1907 A, 19.
 Pennsylvanian (Mazon Creek); Illinois.

Sagenodus reticulatus (Newb. and Worth.).

- Hay, O. P. 1902 A, 355.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Hussakof, L. 1916 A, 131 ("Ctenodus reticulatus").
 Merrill, G. P. 1907 A, 19 (S. magister, S. reticulatus).
 Pennsylvanian (Mazon Creek); Illinois.

Sagenodus serratus (Newb.).

- Hay, O. P. 1902 A, 355.
 Hussakof, L. 1908 A, 54.
 1916 A, 130, 131, fig. 5.
 Pennsylvanian; Ohio.

Sagenodus textilis Hay.

- Hay, O. P. 1902 A, 355.
 Eastmann, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Merrill, G. P. 1907 A, 18 (S. gurleianus); 19 (S. textilis).
 Pennsylvanian (Mazon Creek); Illinois.

Sagenodus vinslovii (Cope).

- Hay, O. P. 1902 A, 355.
 Case, E. C. 1900 A, 703, pl. i, fig. 6.
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 10.
 Hussakof, L. 1911 A, 165, pl. xxvii, figs. 7, 8.
 Permian (Wichita?, Clear Fork?); Texas.
 Pennsylvanian; Illinois.

Sagenodus sp. indet.

- Case, E. C. 1902 B, 63. Permian; Oklahoma.

Type *G. serrata* Cope.

- Case, E. C. 1900 A, 705, pl. i, fig. 9 (Sagenodus).
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 6 (Ctenodus, Gnathorhiza).
 Hussakof, L. 1911 A, 167, pl. xxvii, fig. 10.
 Permian; Illinois, Texas, Oklahoma.

Gnathorhiza serrata Cope.

- Hay, O. P. 1902 A, 355.
 Beede, J. W. 1907 A, 119.
 Hussakof, L. 1908 A, 53, fig. 25.
 1911 A, 167, pl. xxvii, fig. 9 (Syn. of G. pusilla).
 Upper Pennsylvanian; Illinois: Permian (Wichita, Clear Fork); Texas.

CERATODONTIDÆ Gill.

- Hay, O. P. 1902 A, 355.
 Arldt, T. 1907 D, 644 (Ceratodidæ).
 1912 A, 662, 663.
 1923 A, 701 ("ceratodontiden").
 Bridge, T. W. 1904 A, 507.
 Cockerell, T. D. A. 1913 B, 121.
 Cunningham, J. T. 1912 A, 246.
 Eastman, C. R. 1907 B, 23.
 Goodrich, E. S. 1909 A, 257 (Ceratodidæ).
 Gregory, W. K. 1907 D, 447.
 Hoernes, R. 1886 A, 558 (Ceratodidæ).
 Jaekel, O. 1911 A, 78 (Ceratodonti).

- Jordan, D. S. 1905 A, i, 613, ii, p. 562.
 1907 B, 238, 239, 760.
 1923 A, 110.
 Kingsley, J. S. 1885 B, 300 (Sirenidæ).
 Meek, A. 1916 A, 55.
 Rauther, M. 1913 A, 1099.
 Scharff, R. F. 1911 A, 379.
 Stromer, E. 1916 A, 415.
 Stromer and Peyer 1917 A, 1, 65.
 Zittel and Koken 1911 A, 76.
 Zittel and Schlosser 1923 A, 82.

CERATODUS Agassiz. Type *C. latissimus* Agassiz.

- Hay, O. P. 1902 A, 355.
 Abel, O. 1912 F, 664.
 1919 A, 182.
 1920 A, 341, fig. 540.
 1921 A, 155.
 Adams, L. A. 1919 A, 80.
 Agar, W. E. 1906 A.
 1907 A, 625.
 Agassiz, L. 1844 C, 267.
 1877 A, 124.
 Aichel, O. 1919 A, 242.
 Allis, E. P. 1898 A, 460.
 1905 A, 487.
 1909 A, 202.
 1913 A, 324.
 1915 A.
 1917 A, 110.
 1918 A, 244.
 1923 B, 172.
 Arldt, T. 1907 D, 644.
 1923 A, 701.
 Ayers, H. 1885 A, 479.
 Backman, G. 1913 A, 47.
 Baird, H. S. 1922 A, 115.
 Bardeleben, K. 1901 A, 72.
 1903 A, 21.
 Barkas, W. J. 1874 D, 549.
 Barrell, J. 1915 B, 407.
 Beer, G. R. 1924 C, 320, figs. 32-35, 42.
 1926 A, 303, figs. 68-72, 112.
 Berry, E. W. 1925 A, 358.
 Bicknell, E. 1872 A, 189.
 Boas, J. E. V. 1914 B, 546, fig. 9.
 1914 C, 231, figs. 1-3, 6.
 Böklen, H. 1887 A, 76.
 Braus, H. 1900 A, 45.
 1901 A, 183.
 1901 B, 137, pls. xxi-xxiii, xxvii.
 1906 A, 197.
 Bridge, T. W. 1878 A, 691.
 1897 A, 602.
 Briquel, P. 1898 A, 11.
 Bronn, H. G. 1848 A, 259.
 1849 A, 637.
 Broom, R. 1913 A, 459.
 Bruyere, H. 1901 A, 89, fig.
 Case, E. C. 1908 C, 576.
 Cockerell, T. D. A. 1908 C, 162.
 Cope, E. D. 1891 N, 14, fig. 5.
 Cunningham, J. T. 1912 A, 246.
 Dabelow, A. 1926 A, 99, fig. 5.
- Dean, B. 1902 A, 774.
 1906 A, 168.
 1907 A, 48.
 Dean, Gudger, Henn 1923 A, 673.
 Deecke, W. 1926 A, 186.
 Delafontaine, M. 1877 A, 266.
 Derjugin, R. 1910 A, 588.
 1910 B, 207.
 Dohrn, A. 1884 A, 180.
 Dombrowski, B. A. 1925 A, 79.
 Eastman, C. R. 1906 A, 132.
 1907 B, 56, 88, 95, 96, 182.
 1908 A, 211.
 Edgeworth, F. H. 1923 A, 359, figs. 31-39.
 1923 D, 325, figs. 1-39.
 1925 A, 225, 227, 241, figs. 29-40.
 1926 A, 173, figs. 21, 22.
 Eisler, P. 1895 A, 235.
 Emery, C. 1887 A, 185.
 1895 A, 224.
 Frassetto, F. 1915 A, fig. 25.
 Fürbringer, M. 1902 A.
 1904 A, 405.
 1904 B, 423, pls. xxvii-xli.
 Gaskell, W. H. 1908 A, 148.
 Gaupp, E. 1905 D, 921.
 1906 B, 683.
 Gegenbaur, C. 1879 A, 522.
 Gervais, P. 1852 A, explan. pl. lxxvii.
 Giebel, C. G. 1855 A, 115, pl. xlvii, fig. 2.
 Gill, T. 1876 A, 153.
 Goodrich, E. S. 1901 A, 321, fig. K.
 1904 A, 480.
 1906 A, 335.
 1909 A, 507, figs.
 1924 A, 936.
 Gregory, W. K. 1904 A, 55, 57, fig. 9.
 1915 D, 323.
 Hasse, C. 1893 B, 533.
 Haswell, W. A. 1884 A, 81.
 Hatschek, B. 1889 A, 88, fig. 4.
 Heilprin, A. 1887 A, 413.
 Hoernes, R. 1886 A, 558.
 Howes, G. B. 1894 A, 83.
 Humphreys, J. 1908 A, 14.
 Hussakof, L. 1906 A, 127.
 1910 B, 305.
 1911 A, 166.
 Huxley, T. H. 1876 E, 84, figs. 1-7.
 1876 F, 165.
 1880 E, 470.

- Jacobshagen, E. 1920 A, 88.
 Jaekel, O. 1927 A, 252, fig. 1.
 Jaquet, M. 1897 A, 174.
 1899 C, 241, pls. xlv-li.
 1900 A, 60.
 Jordan, D. S. 1919 B, 191.
 Kathariner, L. 1899 A, 345.
 Kellicott, W. E. 1905 A, 131.
 Kerr, J. G. 1900 A, 228.
 1900 B, 298.
 1902 A, 424.
 1908 A, 169.
 1908 B, 171.
 Kingsbury, B. F. 1895 A, 135.
 Kingsley, J. S. 1885 B, 299, figs. 167, 168.
 1925 A, 115, 240, figs. 39, 121, 253.
 Klaatseh, H. 1893 C, 146.
 Koken, E. 1893 B, 268.
 Krall, A. 1908 A, 578.
 Kravetz, L. 1911 A, 332, pls. i, ii.
 Lakjer, T. 1927 A, 190, 278, fig. 69.
 Lavocat, A. 1896 B, 196.
 Leunis and Ludwig 1883 A, 779.
 Lull, R. S. 1917 B, 483.
 Luther, A. 1913 B, 34, figs. 15, 17, 27.
 McGregor, J. H. 1901 B, 447.
 Mantell, G. A. 1844 A, 619.
 Meek, A. 1916 A, 55, 57, 62, 402.
 Miall, L. C. 1872 A, 30, 41.
 Mivart, St. G. 1878 B, 309, 332, fig. 15.
 Mollier, S. 1897 A, 3.
 Mook, C. C. 1918 A, 468.
 Nauck, E. T. 1926 B, 76.
 Neumayer, L. 1904 A, 125, pl. xiv, fig. 14.
 Osborn, H. F. 1905 N, 235.
 1916 E, 607.
 1917 B, 172.
 Owen, R. 1845 B, 63.
 1866 A, 369, 385.
 Palacký, J. 1902 B, 141.
 Parker and Bettany 1877 A, 87.
 Parker and Haswell 1897 A, 230, figs. 853-862.
 Peale, A. C. 1876 A, 153.
 Pehrson, T. 1922 A, 10.
 Perret, A. 1900 A, 786.
 Petronievics, B. 1919 A, 407, 412.
 Peyer, B. 1920 A, 109.
 Philippi and Frech 1903 A, 11, pl. ii.
 Pompeckj, J. F. 1913 A, 1134, fig. 41.
 Priem, F. 1908 B, 6, pl. i, fig. 1.
 Rabl, C. 1901 A, 477.
 Reynolds, S. H. 1897 A, 535, figs. 19, 20.
 Ridewood, W. G. 1894 A, 632, figs. 1-3.
 1896 A, 388, fig. 19.
 1921 A, 329.
 Romer, A. S. 1924 A, 126, 128, figs. 6-10.
 Scharff, R. F. 1911 A, 379.
 Schauinsland, H. 1906 A.
 Schlosser, M. 1898 D, 121.
 1917 A, 135, 139.
 Schmalhausen, J. J. 1913 A, 47.
 1917 A, 109.
 1923 A, 534, fig. 1.
 Semon, R. 1898 A, 51, pls. xi-xvii; text-figs. 1-4.
 1899 A, 294.
 1901 A, 181.
 Semon, R. 1901 B, 113, pls. xvii-xx; text-figs. a-d, k-m.
 Sewertzoff, A. N. 1902 A, 593, figs. 1-5.
 1908 A, 195.
 1926 D, 77, figs. 5, 8, 19-21, 26.
 Solas and Solas 1903 A, 287.
 Solger, B. 1880 A, 365.
 Sorensen, W. 1894 A, 135.
 Starks, E. C. 1916 A, 13.
 Steinmann, G. 1912 B, 726.
 1927 A, 79.
 Stensiö, E. A. 1921 A, 44, 136.
 1925 B, 113, 162.
 Stephan, P. 1900 A, 307.
 Stromer, E. 1916 A, 409.
 Stromer and Peyer 1917 A, 1-76.
 Stur, D. 1886 A, 381.
 Sushkin, P. P. 1927 A, 268, fig. 1.
 Terra, P. 1911 A, 221.
 Tims, H. W. M. 1903 A, 133.
 Traquair, R. H. 1878 A.
 1898 B, 46.
 1900 C, 506.
 Ussow, S. 1900 A, 182.
 Vanhöffen, E. 1891 A, 134.
 Van Wijhe, J. W. 1922 A, 293.
 Watson, D. M. S. 1916 B, 33.
 1925 A, 848.
 1926 A, 200.
 Watson and Day 1916 A, 31, text-fig. 8.
 Watson and Gill 1923 A, 165-215, figs. 13, 19.
 Wiedersheim, R. 1880 C, 123.
 1892 A, 45.
 Woodward, A. S. 1911 C, 46.
 1921 A, 180.
 1921 C, 180.
 1922 C, 78, figs. 80, 81.
 1924 A, 114, fig. 7.
 Woodward, H. 1878 A, 17, pl. ii, fig. 2.
 1904 B, 141.
 Zittel and Koken 1911 A, 77.
 Zittel and Schlosser 1923 A, 82, fig. 141.
- Ceratodus americanus Knight.**
 Hay, O. P. 1902 A, 356.
 Cockerell, T. D. A. 1908 C, 162.
 Mook, C. C. 1916 A, 149.
 Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.
- Ceratodus dorotheæ Case.**
 Case, E. C. 1921 B, 2, fig.
 Case, E. C. 1921 C, 445.
 1921 D, 338 ("Ceratodus").
 1922 A, 445.
 Triassic (Dockum); Texas.
- Ceratodus eruciferus Cope.**
 Hay, O. P. 1902 A, 356.
 Bowen, C. F. 1915 A, 118, 148, 150.
 Brown, B. 1914 E, 378 (Rhineastes).
 Cockerell, T. D. A. 1908 C, 162.
 Hatcher, J. B. 1905 B, 68.
 Hay, O. P. 1903 D, 120.
 Hussakof, L. 1908 A, 50.
 Lambe, L. M. 1902 A, 29 (Rhineastes).
 1904 C, 22, 36, 44 (Rhineastes).

Matthew, W. D. 1916 A, 484 (*Rhineastes cruciferus*).
 Osborn, H. F. 1902 I, 11.
 Stromer, E. 1906 A, 207.
 Cretaceous (Judith River); Montana: Belly River); Alberta.

Ceratodus favosus Cope.

Hay, O. P. 1902 A, 356.
 Beede, J. W. 1907 A, 119.
 Case, E. C. 1915 A, 96.
 Hussakof, L. 1908 A, 51, fig. 23.
 1911 A, 166, pl. xxiii, fig. 11.
 Permian (Wichita, Clear Fork); Texas.

Ceratodus guntheri Marsh.

Hay, O. P. 1902 A, 356.
 Cockerell, T. D. A. 1908 C, 162.
 Gilmore, C. W. 1914 A, 25.

Marsh, O. C. 1878 A, 184, fig.
 Mook, C. C. 1916 A, 149 (*C. guntheri*).
 Simpson, G. G. 1926 E, 2.
 Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Ceratodus robustus Knight.

Hay, O. P. 1902 A, 356.
 Cockerell, T. D. A. 1908 C, 162.
 Mook, C. C. 1916 A, 149.
 Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Ceratodus sp. indet.

Freudenberg, W. 1921 A, 111. Upper Cretaceous; Mexico.
 Mook, C. C. 1916 A, 96. Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

SYNTHETODUS Eastman. Type *S. trisulcatus* Eastman.

Hay, O. P. 1902 A, 356.
 Eastman, C. R. 1908 A, 231.
 1917 A, 246.
 Sauvage, H. E. 1899 A, 7.

Synthetodus calvini Eastman.

Eastman, C. R. 1908 A, 213, 233, 287, pl. ii, fig. 19, pls. x-xii.
 Hussakof and Bryant 1919 A, 15, 17, 150, pl. lv, figs. 1, 2.
 Upper Devonian (State Quarry and Sweetland Creek); Iowa: (Genesee); New York.

ACMONIODUS Hussakof and Bryant. Type *A. clarkei* Hussakof and Bryant.

Hussakof and Bryant 1919 A, 151.
 Woodward, A. S. 1921 B, 36.
 A genus of uncertain position.

Synthetodus trisulcatus Eastman.

Hay, O. P. 1902 A, 356.
 Eastman, C. R. 1907 B, 20.
 1908 A, 213, 231, 286, pls. ix, xi.
 Sauvage, H. E. 1899 A, 7.
 Upper Devonian (State Quarry and Sweetland Creek); Iowa.

Acmoniodus clarkei Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 151, pl. lv, fig. 3; text-fig. 53.
 Upper Devonian (Genesee); New York.

Subclass CROSSOPTERYGIA Cope.

When the authors quoted use the masculine plural ending this is indicated thus: (-ii).
 Hay, O. P. 1902 A, 357.
 Abel, O. 1919 A, 158, fig. 170.
 1920 A, 338 (-ii).
 1921 A, 214, 247 ("crossopterygier").
 1922 F, (-ii).
 Allis, E. P. 1905 A, 417 (Crossopterygidæ).
 1909 A, 202.
 1918 A, 242 (-ii).
 1919 A, 374 (-ii).
 1919 B, 73.
 1922 A, 150 (-ii).
 1923 B, 156 (-ii).
 1926 A, 169 (-ii).
 Anthony, R. 1912 A ("crossoptérygiens").
 1913 A, 269 ("crossoptérygiens").
 Arltdt, T. 1907 D, 648.
 1923 A, 491 ("crossopterygier").
 Bardeleben, K. 1896 A, 113 ("crossopterygier").
 1901 A, 70 ("crossopterygier").
 1907 A, 36 ("crossopterygier").
 Barrell, J. 1915 B, 402, 406 (-ii).
 Bender, O. 1907 A, 39 ("crossopterygier")
 Bender, O. 1910 A, 122 ("crossopterygier").
 Boas, J. E. V. 1914 B, 542 ("crossopterygier").
 Boulenger, G. A. 1901 D, 2 (-ii).
 1917 C, 458 ("crossoptérygiens").
 Braus, H. 1901 B, 209, 244 ("crossopterygier").
 1904 A, 411 ("crossopterygier").
 Bridge, T. W. 1878 A, 723 (-ii).
 1904 A, 476, 737 (-ii).
 Broom, R. 1913 B, 465 ("crossopterygians").
 Bryant, W. L. 1919 A, 4, 22 (-ii).
 Carus, V. 1875 A, 693 (-ii).
 Case, E. C. 1915 A, 124 ("crossopterygians").
 Chamberlin, T. C. 1900 A, 411 ("crossopterygians").
 Collinge, W. E. 1893 B, 259.
 Cope, E. D. 1871 T, 449, 450.
 1891 N, 19.
 Cunningham, J. T. 1897 A, 497 ("crossopterygians").
 1912 A, 246, 251, 254 (-ii).
 Dean, B. 1900 A, 8, 29 (-ii).
 1916 A ("fishes").
 Dean, Gudger, Henn 1923 A, 676 (-ii).
 Dollo, L. 1906 B, 137 ("crossoptérygiens").

- Eastman, C. R. 1901 C, 329 (-ii).
 1904 C, 141 ("crossopterygians").
 1905 A, 54 (-ii).
 1907 B, 23, 165 (-ii).
 1908 A, 62, 69, 237, 255 (-ii).
 1911 A, 20 (-ii).
 1916 A, 655 (-ii).
 1916 B, 104 (-ii).
 1917 A, 244, 270 (-ii).
- Eastman and Barbour 1902 A, 267 ("crossopterygians").
- Eimer, G. H. T. 1901 A, 254 ("crossopterygier").
- Emery, C. 1887 A, 187 ("crossopterygier").
 1895 A, 226 ("crossoptérygiens").
- Fuchs, H. 1907 C, 26 ("crossopterygier").
- Fürbringer, K. 1903 A, 377 ("crossopterygier").
- Fürbringer, M. 1902 A, 198 ("crossopterygier").
- Gadow, H. 1902 B, 359 (-ii).
- Gill, T. 1898 A, 697 ("crossopterygians").
 1905 A, 658 (-ii).
 1909 B, 838 (-ii).
- Goodrich, E. S. 1904 A, 499 (-ii).
 1908 A, 765 (-ii).
 1908 B, 546 (-ii).
 1909 A, 280 (Osteolepidoti).
- Gregory, W. K. 1907 D, 447, 456 (-ii).
 1911 A, 509 ("crossopterygians").
 1911 B, 892 ("crossopterygians").
 1912 D, 220 (-ii).
 1913 D, 806, 807 (-ii).
 1914 C, 267 (-ii).
 1915 D, 318, 325, 353 (-ii).
 1920 A, 219 (-ii).
 1922 A, 10 ("crossopterygians").
 1927 G, 267 ("crossopterygians").
- Hase, A. 1907 A, 653 ("crossopterygier").
- Haswell, W. A. 1884 A, 80 ("crossopterygians").
- Hertwig, O. 1879 A, lxxx (Polypterus).
- Hilzheimer, M. 1913 A, 472 ("crossopterygier").
- Hoernes, R. 1866 A, 550 (-ii).
- Hubbs, C. L. 1919 A, 670 (Amphibioidei, part).
- Hussakof, L. 1906 A, 124 ("crossopterygians").
- Huxley, T. H. 1861 D, 442, 444 (Crossopterygidæ).
 1866 B, 23 (Crossopterygidæ).
 1876 E, 112 (-ii); p. 121 (Crossopterygidæ).
- Jacobshagen, E. 1920 A, 90 ("crossopterygier").
- Jaekel, O. 1902 A, 108 ("crossopterygier").
 1909 A, 198 ("crossopterygier").
 1911 A, 69, 75 (-ii).
- Jordan, D. S. 1903 A, 136 ("crossopterygians").
 1905 A, I, 598; II, 565 (-ii).
 1907 B, 224, 759 (-ii).
 1923 A, 108 (-ii).
- Kellicott, W. E. 1905 A, 137 (-ii).
- Kerr, J. G. 1900 A, 233.
 1901 A, 694 ("crossopterygians").
 1908 B, 170 ("crossopterygians").
 1910 A, 203 ("crossopterygians").
 1923 A, 108 (-ii).
- Keyes, C. A. 1922 A, pl. iii.
- Kiaer, J. 1924 A, 92, 111, 116 (-ii).
- Kingsley, J. S. 1885 A, 95 (-ii).
 1901 B, 338 (-ii).
 1925 A, 100 (-ii).
- Koken, E. 1893 B, 351 ("crossopterygier").
- Lakjer, T. 1927 A ("crossopterygier").
- Leunis and Ludwig 1883 A, 776 (-ii).
- Lönnberg, E. 1901 A (Crossopterygidæ).
- Lubosch, W. 1911 B, 748 ("crossopterygier").
- Lütken, C. 1868 C (Crossopteri).
 1871 A, 290 ("crossoptères").
- Lull, R. S. 1917 B, 486 (-ii).
- Luther, A. 1913 B, 10, 18, 51 (-ii).
- Meek, A. 1916 A, 48, 54 (-ii).
- Mollier, S. 1897 A, 3 ("crossopterygians").
- Moodie, R. L. 1913 A, 183 ("crossopterygians").
 1915 G, 371.
 1915 H, 637, 641.
 1926 A, 83.
- Nauck, E. T. 1926 B, 70 ("crossopterygier").
- Osborn, H. F. 1916 E, 601 (-ii).
 1917 B, 174, 186.
- Oswald, F. 1911 A, 409.
- Parker and Haswell 1897 A, 202 (-ii).
- Pehrson, T. 1922 A ("crossopterygians").
- Pompeckj, J. F. 1913 A, 1135 (-ii).
- Priem, F. 1908 B, 5 ("crossoptérygiens").
- Rabl, C. 1901 A, 489 ("crossopterygier").
- Rauther, M. 1913 A, 1099 (-ii).
- Regan, C. T. 1904 A, 330, 331, 336 (-ii).
 1908 D, 47 ("crossopterygians").
 1909 B, 76 (-ii).
- Reynolds, S. H. 1897 A, 33, 67, 68, 116.
- Romer, A. S. 1924 A, 121 (-ii).
- Rosén, N. 1916 A, 15, 30 (-ii).
- Ryder, J. 1885 E, 96.
 1886 A, 74, 77 (-ii).
- Sagemehl, M. 1884 A, 20 ("crossopterygier").
- Schauinsland, H. 1906 A, 455 ("crossopterygier").
- Schlosser, M. 1917 A, 133, 138, 147 ("crossopterygier").
- Schmalhausen, J. J. 1913 A, 18 ("crossopterygier").
 1913 B, 757 ("crossopterygier").
 1913 C (-ii).
 1916 B, 147 (-ii).
 1917 A, 110.
- Schuchert, C. 1915 A, 690 (-ii).
- Scupin, H. 1896 A, 153, 180 (-ii).
- Semon, R. 1901 A, 180 ("crossopterygier").
 1901 B, 130 ("crossopterygier").
- Sewertzoff, A. N. 1923 B (-ii).
 1924 A, 551-580, figs. i-xiv (Polypterus).
 1926 A, 508.
 1926 C, 42 (-ii).
 1926 D, 76 (-ii).
 1926 E, 552 ("crossopterygians").
 1926 F, 274 (-ii).
- Shitkov, B. M. 1899 A, 256 ("crossopterygier").
- Smith, G. E. 1912 A, 427 (-ii).
- Steinmann, G. 1907 A, 408 (-ii).
 1927 A, 76 ("crossopterygier").
- Stensiö, E. A. 1918 A, 117 ("crossopterygians").
 1921 A, 43 (-ii).
 1922 A, 1241 ("crossopterygians").
 1925 A, 131.
 1925 B, 161, 187 (-ii).
- Stromer, E. 1905 C, 184 (-ii).
 1912 A, 29 (-ii).
 1920 A, 12, 15 (-ii).
 1925 B, 355, 364 (-ii).
- Sushkin, P. P. 1910 A, 250 (-ii).

- Sushkin, P. P. 1927 A, 264 (-ii).
 Thevenin, A. 1910 A, 35 ("crossopterygiens").
 Traquair, R. H. 1870 A, 179 ("crossopterygians").
 1877 B, 8 (-ii).
 1880 A, 157 (Crossopterygidæ).
 1900 C, 505 (-ii).
 1905 A, 85 (-ii).
 Versluys, J. 1912 B, 552 ("crossopterygier").
 Vogel, R. 1909 A, 501 ("crossopterygier").
 Watson, D. M. S. 1912 A ("crossopterygiens").
 1913 D, 26 (-ii).
 Watson and Day 1916 A, 21 ("crossopterygians").
- Wintrebert, P. 1910 B, 78 ("crossoptérygiens").
 Woodward, A. S. 1906 A, 313 (-ii).
 1906 C, 273.
 1909 A, 324 ("crossopterygiens").
 1910 B, 464 ("crossopterygiens").
 Woodward, H. 1878 A, 22 (Crossopterygidæ).
 1915 B, lxxi.
 1922 B, 27.
 1922 C, 82 (-ii).
 1924 A, 116 (-ii).
 Zittel and Koken 1911 A, 85 (-ii).
 Zittel and Schlosser 1923 A, 84 (-ii).
 Zittel and Woodward 1902 A, 69 (-ii).

Order RHIPIDISTIA Cope.

- Hay, O. P. 1902 A, 357.
 Allis, E. P. 1919 A, 377.
 Case, E. C. 1924 B, 7.
 Cope, E. D. 1891 N, 19.
 Eastman, C. R. 1907 B, 23.
 1908 A, 69.
 Goodrich, E. S. 1909 A, 284.
 Gregory, W. K. 1915 D, 326.
 Gregory and Adams 1915 A, 763.
 Jaekel, O. 1911 A, 75 (Holoptychii).
 Jordan, D. S. 1905 A, i, 602.
- Jordan, D. S. 1907 B, 228, 760.
 1923 A, 108.
 Osborn, H. F. 1916 E, 608, fig. 18.
 Scupin, H. 1896 A, 154, 181 (Cyclodipterini)
 Stensiö, E. A. 1918 A, 116.
 1921 A, 129, 131, 140, 147.
 1922 A, 1259, 1267 ("rhipidistids").
 1925 A, 69, 91 ("rhipidistids").
 Sewertzoff, A. N. 1923 B.
 Watson, D. M. S. 1917 B, 49.
 Watson and Day 1916 A, 26.

Suborder OSTEOLEPIDIFORMES, new name.

- Boulenger, G. A. 1901 D, 2 (Osteolepida).
 Bridge, T. W. 1904 A, 477 (Osteolepida).
 Dean, Gudger, Henn 1923 A, 622 (Osteolepida).
 Gregory, W. K. 1907 D, 448 (Osteolepida).
 1912 D, 220 (Osteolepida).
- Huene, F. 1926 A, 261 ("osteolepiden").
 Jaekel, O. 1911 A, 79 (Osteolepidi); 76 (Onychodonti).
 Sewertzoff, A. N. 1923 B, 118 (Osteolepidæ).

HOLOPTYCHIIDÆ Owen.

- Owen, R. 1860 E, 132 (Holoptychidæ).
 Hay, O. P. 1902 A, 358.
 Abel, O. 1919 A, 163.
 Arltdt, T. 1912 A, 648, 658.
 1923 A, 491 ("holoptychiden").
 Barrell, J. 1915 B, 393.
 Bridge, T. W. 1904 A, 479, 743 (Holoptychidæ).
 Clarke, J. M. 1895 A, 121.
 Dean, Gudger, Henn 1923 A, 622.
 Eastman, C. R. 1907 B, 23, 165.
 1908 A, 238.
 1917 A, 237.
 Goodrich, E. S. 1904 A, 501.
 1909 A, 284.
 Gregory, W. K. 1907 D, 448.
 1915 D, 355.
- Jordan, D. S. 1905 A, i, 603; ii, 575.
 1907 B, 229.
 1922 A, 108.
 Lütken, C. 1871 A, 290 ("cyclodiptériens").
 Pompeckj, J. F. 1913 A, 1135, 1136.
 Rohon, J. V. 1889 A, 13 (Rhombodipterini).
 Schlosser, M. 1917 A, 133 ("holoptychiden").
 Sewertzoff, A. N. 1923 B, 119.
 Stensiö, E. A. 1918 A, 117.
 Stromer, E. 1905 H, 216.
 Terra, P. 1911 A, 206 (Holoptychidæ).
 Traquair, R. H. 1900 C, 505.
 Watson and Day 1916 A, 26 (Holoptychidæ).
 Zittel and Koken 1911 A, 85.
 Zittel and Schlosser 1923 A, 84.
 Zittel and Woodward 1902 A, 69.

HOLOPTYCHIUS Agassiz. Type *H. nobilissimus* Agassiz.

- Hay, O. P. 1902 A, 358.
 Abel, O. 1919 A, 164, figs. 116, 120.
 1921 A, 248, fig. 89.
 Agassiz, L. 1839 A, 599, pl. ii, figs. 1-4, 8 (Holoptychus).
 1844 C, 269.
 1877 A, 124 (Holoptychus).
 Barkas, W. J. 1874 D, 551.
 Braus, H. 1901 B, 231, fig. 20.
 Bridge, T. W. 1904 A, 479, 743, fig. 277.
 Bronn, H. G. 1848 A, 594.
 1849 A, 654.
- Bryant, W. L. 1919 A, 8.
 Claypole, E. W. 1883 C, 281.
 Cunningham, J. T. 1912 A, 254, fig. 23.
 Darton, N. H. 1906 A, 563.
 Davies, W. 1863 A, 135.
 Deecke, W. 1913 A, 88.
 Eastman, C. R. 1908 A, 239.
 1908 B, 166.
 Egerton, P. G. 1852 C, 6 L, 5.
 Eichwald, E. 1840 A, 78 (Holoptychus).
 Frech, F. 1897 A, 82, 123.
 Giebel, C. G. 1855 A, 113.

- Goodrich, E. S. 1908 A, 765.
1909 A, 281, 284, figs.
Gregory, W. K. 1915 D, 329.
1920 A, 219.
Heckel, J. 1851 A, 221.
Heilprin, A. 1887 A, 149, 301.
Hoernes, R. 1886 A, 551.
Hussakof, L. 1906 A, 143.
Huxley, T. H. 1861 D, 425, fig. 4 ("ganoids").
Jordan, D. S. 1919 B, 194 (Holoptychus).
Klaatsch, H. 1890 A, 221.
Knipe, H. R. 1912 A, 40, fig. 40.
Lütken, C. 1868 C, 55, fig. 8.
Mantell, G. A. 1844 A, 653.
Miall, L. C. 1872 A, 28, 40.
Miller, H. 1857 A, 247, figs. 99, 100.
Moodie, R. L. 1926 A, 67, 83, 94, pl. xi.
Murchison, R. I. 1854 A, 245, pl. xxxvi, figs. 9-13.
Osborn, H. F. 1916 E, 606, fig. 14.
1917 B, 170, fig.
Owen, R. 1866 A, 378.
Pehrson, T. 1922 A, 57.
Pompeckj, J. F. 1913 A, 1136, fig. 42.
Regan, C. T. 1904 A, 339.
Reynolds, S. H. 1897 A, 105.
Schmalhausen, J. J. 1913 A, 75.
Schuchert and Levene 1927 A, 266, fig.
Scupin, H. 1896 A, 154.
Sewertzoff, A. N. 1924 A, 579.
1926 A, 523.
Traquair, R. H. 1880 A, 156.
1898 B, 46.
Watson, D. M. S. 1912 B, 586.
1913 F, 957.
1916 B, 2, pl. ii, fig. 7; text-fig. 1.
1925 A, 821, 823.
Watson and Day 1916 A, 2, 21, pl. ii, fig. 7; text-fig. 1.
Woodward, A. S. 1890 F, 147.
1900 H, 1.
1906 C, 273, fig. 6.
1913 B, 82, pl. x, figs. 1, 2.
1915 B, lxxi.
1921 A, 181.
1922 B, 28, fig. 1.
1922 C, 82, figs. 85, 86.
Young, J. 1866 C, 317.
Zittel and Koken 1911 A, 86.
Zittel and Schlosser 1923 A, 85, figs. 143, 144.

Holoptychius americanus Leidy.

- Hay, O. P. 1902 A, 358.
Claypole, E. W. 1883 B, 531.
1883 C, 279.
1903 A, 319.
Clarke and Ruedemann 1903 A, 767.
Eastman, C. R. 1904 B, 258.
1907 B, 21, 22, 167, 230.
1908 A, 239, 288, 290.
Hussakof, L. 1908 A, 55.
Hussakof and Bryant 1919 A, 175.
White, I. C. 1883 A, 459.
Upper Devonian (Catskill); Pennsylvania:
(Chemung); New York: Devonian; Colorado.

Holoptychius filusus Cope.

- Hay, O. P. 1902 A, 358.
Eastman, C. R. 1907 B, 21, 168.
1908 A, 239, 288.
Hussakof, L. 1908 A, 56.
Upper Devonian (Chemung); Pennsylvania.

Holoptychius flabellatus Cope.

- Hay, O. P. 1902 A, 358.
Eastman, C. R. 1908 A, 239.
1908 B, 168.
Merrill, G. P. 1907 A, 12.
Upper Devonian (Catskill); Pennsylvania.

Holoptychius giganteus Agassiz.

- Agassiz, L. 1843 B (1835), ii, pt. i, 175, pl. xix, fig. 13 (Gyrolepis).
Unless otherwise indicated, the authors, as quoted, apply to this species the name *H. nobilissimus*; but it is antedated by *giganteus*.
Agassiz, L. 1839 A, 600, pl. ii, bis, figs. 1, 2.
1844 B, 72, pl. xxii, fig. 2 (*H. murchisoni*).
Cross, W. 1905 C, 4 ("Holoptychius." This species?).
Eichwald, E. 1860 A, 1572.
Hussakof and Bryant 1919 A, 175 (*H. giganteus*); 176 (*H. nobilissimus*).
Lohest, M. 1888 A, 127, 139 (*H. nob.*); 134, pl. i, fig. 5; pl. ii, figs. 1-4; pl. iii, figs. 1, 3, 5, 6; pl. v, figs. 1-3 (*H. dewalquei*).
M'Coy, F. 1855 A, 595.
Miller, H. 1841, Old Red Sandst., 162, pl. ix, fig. 2 (*Fide* A. S. Woodward).
Traquair, R. H. 1890 F, 388.
Woodward, A. S. 1891 A, 323.
1900 H, 1, pl. i, figs. 1-10.
Upper Devonian, Scotland, Belgium, Russia, East Greenland: Upper Devonian (Elbert); Colorado.

Holoptychius granulatus Newb.

- Hay, O. P. 1902 A, 358.
Claypole, E. W. 1903 A, 319.
Eastman, C. R. 1907 B, 21, 168.
1908 A, 239, 288.
Upper Devonian (Chemung); Pennsylvania.

Holoptychius hallii Newb.

- Hay, O. P. 1902 A, 358.
Claypole, E. W. 1903 A, 319 (*H. halli*).
Clarke and Ruedemann 1903 A, 767 (*H. halli*).
Eastman, C. R. 1907 B, 22, 168.
1908 A, 239, 290.
Hussakof and Bryant 1919 A, 176.
Upper Devonian (Catskill); New York.

Holoptychius latus Cope.

- Hay, O. P. 1902 A, 358.
Eastman, C. R. 1907 B, 168.
1908 A, 239.
1908 B, 168.
Merrill, G. P. 1907 A, p. 12.
Upper Devonian (Catskill); Pennsylvania.

Holoptychius princeps M'Coy.

M'Coy, F. 1848 C, 310.

Unless otherwise indicated, the following authors call this species *H. giganteus*; but the specific name had been previously applied by Agassiz to another species.

Hay, O. P. 1902 A, 358.

Claypole, E. W. 1903 A, 319 (This species?).

Eastman, C. R. 1904 B, 257, fig. 5.

1907 B, 20, 21, 22, 167.

1908 A, 239, 287, 288, 290.

1915 A, 280.

Hussakof, L. 1906 A, 150.

1908 A, 56 (This species?).

Murchison, R. I. 1854 A, pl. xxxvi, fig. 11.

Upper Devonian (Chemung, Catskill); New York, Pennsylvania: (Elbert); Colorado: Europe?).

Holoptychius? pustulosus Newb.

Hay, O. P. 1902 A, 358.

Claypole, E. W. 1903 A, 319 (This species?).

Eastman, C. R. 1907 B, 22, 168.

1908 A, 239, 288.

Hussakof, L. 1908 A, 56 (This genus?).

Upper Devonian (Chemung); Pennsylvania.

Holoptychius radiatus Newb.

Hay, O. P. 1902 A, 359.

Claypole, E. W. 1903 A, 319 (This species?).

Eastman, C. R. 1907 B, 22.

1908 A, 290.

Hussakof, L. 1908 A, 56.

Upper Devonian (Catskill); Pennsylvania.

Holoptychius scheii Kiaer.

Kiaer, J. 1915 A, 44, 47, pl. viii, figs. 3, 4.

Upper Devonian?; Ellesmere Land.

Holoptychius serrulatus Cope.

Hay, O. P. 1902 A, 359.

Eastman, C. R. 1908 A, 239.

1908 B, 168.

Hussakof and Bryant 1919 A, 176.

Merrill, G. P. 1907 A, 12.

Upper Devonian (Catskill); Pennsylvania.

Holoptychius tuberculatus Newb.

Hay, O. P. 1902 A, 359.

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1904 B, 258, fig. 6.

1907 B, 20, 22, 168.

1908 A, 239, 287, 289.

1915 A, 280.

Hussakof, L. 1908 A, 57.

Kiaer, J. 1915 A, 45 (This species?).

Upper Devonian (Chemung); Pennsylvania; Ellesmere Land.

Holoptychius sp. indet.

Cross, W. 1905 C, 5. Upper Devonian (Elbert); Colorado.

1910 A, 5. Upper Devonian (Elbert); Colorado.

Eastman, C. R. 1907 B, 15. Middle Devonian; New York.

1908 A, 279. Devonian; Iowa, New York, Greenland.

Jordan, D. S. 1907 A, 120. Triassic; California.

Lull, R. S. 1918 A, 361. Devonian; Arizona.

Norton, W. H. 1906 A, 356. Middle Devonian (Cedar Valley); Iowa.

GLYPTOLEPIS Agassiz. Type *G. leptopterus* Agassiz.

Agassiz, L. 1844 B, 61, 62.

Hay, O. P. 1902 A, 358 (Holoptychius, in part).

Abel, O. 1919 A, 164, fig. 121.

Agassiz, L. 1844 B, 62 (in part).

Bronn, H. G. 1848 A, 537.

1849 A, 654.

Eastman, C. R. 1907 B, 166.

1908 A, 238.

Goodrich, E. S. 1909 A, 285.

Hoernes, R. 1886 A, 551.

Huxley, T. H. 1861 D, 426, fig. 7.

Jaekel, O. 1909 D, 718, fig. 10.

1911 A, 76, fig. 77.

Miller, J. 1859 A, 31.

Nicholson and Lydekker 1889 A, 969.

Oswald, F. 1911 A, 407, fig. 7.

Parker and Haswell 1897 A, 227, fig. 850.

Powrie, J. 1862 A, 435.

Scupin, H. 1896 A, 155.

Sewertzoff, A. N. 1926 D, 90.

Watson, D. M. S. 1916 B, 7, pl. ii, fig. 8.

Watson and Day 1916 A, 7, pl. ii, fig. 8.

Woodward, A. S. 1898 B, 72, 74.

Zittel, K. A. 1890 A, 179.

Zittel and Schlosser 1923 A, 85, fig. 8 (Syn. of Holoptychius).

Glyptolepis paucidens (Agassiz).

Agassiz, L. 1844 B, 61, 78, pl. xxxviii, fig. 11 (Platygnaethus).

Kiaer, J. 1915 A, 45, 55, pl. viii, figs. 1, 2 (This species?).

Traquair, R. H. 1888 B, 513.

1890 H, 483.

Woodward, A. S. 1891 B, 336 [Holoptychius (Glyptolepis)].

Upper Devonian (Lower Old Red); Orkneys:

Upper Devonian?; Ellesmere Land.

Glyptolepis quebecensis Whiteaves.

Hay, O. P. 1902 A, 358 (Holoptychius).

Bryant, W. L. 1919 A, 5, pl. xvi, fig. 1 (Holoptychius).

Clark, J. M. 1913 A, 115 (Holoptychius).

Claypole, E. W. 1883 C, 278.

Eastman, C. R. 1907 B, 17 (Holoptychius); 166 (Glyptolepis).

1908 A, 238.

Hussakof and Bryant 1919 A, 174, text-fig. 58.

Kiaer, J. 1915 A, 46.

Lambe, L. M. 1904 C, 17, 34, 42 (Holoptychius).

Whiteaves, J. F. 1907 B, 253 (Holoptychius).

Upper Devonian (Scaumenac); Quebec.

APEDODUS Leidy. Type *A. priscus* Leidy.

- Hay, O. P. 1902 A, 359.
 Eastman, C. R. 1907 B, 166 (Syn.? of *Holoptychius*).
 1908 A, 238 (Syn.? of *Holoptychius*).
 Jordan, D. S. 1919 B, 283 (Syn.? of *Dendrodus*).

Apedodus priscus Leidy.

- Hay, O. P. 1902 A, 359.
 Clappole, E. W. 1903 A, 319.
 Eastman, C. R. 1907 B, 21, 166, 225, pl. i, figs. 1, 2.
 1908 A, 238.
 Upper Devonian (Chemung); Pennsylvania.

DENDRODUS Owen. Type *D. biporcatus* Owen.

- Hay, O. P. 1902 A, 359.
 Agassiz, L. 1843 A (1844).
 Barkas, W. J. 1874 D, 550.
 Giebel, C. G. 1855 A, 114.
 Heilprin, A. 1887 A, 301.
 Huxley, T. H. 1861 D, 431, 436.
 Lohest, M. 1888 A, 116.
 Mantell, G. A. 1844 A, 653.
 Owen, R. 1845 B, 171.
 1866 A, 367, figs. 245, 246.
 Röse, C. 1897 A, 49, 61.
 Rohon, J. V. 1889 B, 3, pls. i, ii; text-fig. ii.

- Stensiö, E. A. 1918 A, 116.
 Tomes, C. S. 1898 C, 347.
 Traquair, R. H. 1880 A, 149, 157.

Dendrodus arisaigensis Whiteaves.

- Hay, O. P. 1902 A, 359.
 Eastman, C. R. 1907 B, 13.
 1908 A, 276.
 Lambe, L. M. 1904 C, 15, 33, 42.
 1912 A, 3.
 Silurian or Lower Devonian (Arisaig); Nova Scotia.

ERIPTYCHIUS Walcott. Type *E. americanus* Walcott.

- Hay, O. P. 1902 A, 359.
 Clarke, J. M. 1895 A, 121 ("fossil fishes").
 Jordan, D. S. 1905 A, i, 578; ii, 568.
 Stromer, E. 1920 A, 10, 11.
 Vaillant, L. 1902 A, 1321 ("poissons").
 Walcott, C. D. 1891 A, 245 ("fish").

Eriptychius americanus Walcott.

- Hay, O. P. 1902 A, 359.
 Cockerell, T. D. A. 1908 C, 162.
 Eastman, C. R. 1907 B, 12.
 Jaekel, O. 1892 C, 168 ("fish remains").
 1895 D, 162.
 Jordan, D. S. 1907 B, 229.
 Merrill, G. P. 1907 A, 11.
 Ordovician; Colorado.

MEGALICHTHYIDÆ Hay.

Unless otherwise indicated, the writers, as cited, use the name *Rhizodontidæ*.

- Hay, O. P. 1902 A, 359 (*Megalichthyidæ*).
 Abel, O. 1919 A, 165.
 Allis, E. P. 1922 A, 149.
 Arltdt, T. 1912 A, 648, 650.
 Bridge, T. W. 1904 A, 478.
 Dean, Gudger, Henn 1923 A, 622.
 Dollo, L. 1896 A, 91.
 Eastman, C. R. 1907 B, 23.
 Goodrich, E. S. 1904 A, 500.
 1909 A, 285.

- Gregory, W. K. 1907 D, 448.
 1915 D, 326.
 Jordan, D. S. 1905 A, i, 603, ii, p. 580 (*Megalichthyidæ*).
 1907 B, 229, 760 (*Megalichthyidæ*).
 1923 A, 108 (*Megalichthyidæ*).
 Schlosser, M. 1917 A, 133 ("rhizodontiden").
 Schmalhausen, J. J. 1913 A, 55.
 Stensiö, E. A. 1918 A, 117.
 Traquair, R. H. 1900 C, 505.
 Zittel and Koken 1911 A, 86.
 Zittel and Schlosser 1923 A, 85 (*Rhizodontidæ*).
 Zittel and Woodward 1902 A, 70.

MEGALICHTHYS Agassiz and Hibbert. Type *M. hibberti* Agassiz and Hibbert.

- Hay, O. P. 1902 A, 359.
 Agassiz, L. 1835 A, 646 (*Megalichthys*; descript. insufficient).
 1835 C, 58.
 1835 D, 190.
 1844 C, 269.
 Bronn, H. G. 1848 A, 709.
 Case, E. C. 1917 A, 125 (*Rhizodus*).
 Connell, A. 1835 A, 302.
 1835 B, 191.
 Goodrich, E. S. 1908 A, 755, fig. 197.
 Gregory, W. K. 1915 D, 326 (*Rhizodus*).
 Humphreys, J. 1908 A, 12 (*Rhizodus*).
 Jordan, D. S. 1919 B, 185.
 1923 A, 108.

- Murchison, R. I. 1854 A, 281.
 Stevenson, J. J. 1907 A, 168 (*Rhizodus*).
 Traquair, R. H. 1878 C, 444 (*Rhizodus*).
 1878 D, 657 (*Rhizodus*).
 1880 A, 142, 149 (*Rhizodus*).
 1908 A, 104 (*Rhizodus*).
 Watson, D. M. S. 1913 F, 957 (*Rhizodus*).
 Woodward, A. S. 1890 F, 147 (*Rhizodus*).
 1911 C, p. 46 (*Rhizodus*).
 1915 B, lxxi (*Rhizodus*).
 Young, J. 1866 C, 317 (*Rhizodus*).
 Zittel and Koken 1911 A, 86 (*Rhizodus*).
 Zittel and Schlosser 1923 A, 86, fig. 146 (*Rhizodus*).
 Zittel and Woodward 1902 A, 70 (*Rhizodus*).

Megalichthys anceps (Newb.).

- Hay, O. P. 1902 A, 360.
 Hussakof, L. 1908, 58 (Rhizodus).
 Mississippian (St. Louis); Illinois.

Megalichthys angustus (Newb.).

- Hay, O. P. 1902 A, 360. Pennsylvanian; Ohio.

Megalichthys incurvus (Newb.).

- Hay, O. P. 1902 A, 360. Pennsylvanian; Ohio.

Megalichthys lancifer (Newb.).

- Hay, O. P. 1902 A, 360.
 Lambe, L. M. 1904 C, 19, 35, 43 (Rhizodus. This species?).
 Whiteaves, J. F. 1903 B, 29 (Rhizodus. This species?).
 Coal Measures; Nova Scotia.

Megalichthys ornatus (Traquair).

- Traquair, R. H. 1878 D, 659 (Rhizodus).
 Cockerell, T. D. A. 1913 A, 246 (Rhizodus. This species?).
 Miall, L. C. 1875 B, 624, fig. ("Rhizodus").
 Traquair, R. H. 1875 B, 266 (Rhizodus hiberni).
 Woodward, A. S. 1891 A, 346, pl. xii, figs. 1-4 (Rhizodus).
 Young, J. 1866 B, 599 ("Rhizodus").
 Ordovician; Colorado.

Megalichthys sp. indet.

- Bell, W. A. 1913 A, 343 (Rhizodus). Pennsylvanian (Joggins); Nova Scotia.

STREPSODUS Young. Type *Holoptychius sauroides* Binney; not of Williamson.

- Hay, O. P. 1902 A, 360.
 Leriche, M. 1908 B, 270.
 Stensiö, E. A. 1918 A, 118.
 Wellburn, E. D. 1900 C, 86, pl. xviii.
 Zittel and Woodward. 1902 A, 71.

Strepsodus arenosus Hay.

- Hay, O. P. 1902 A, 360.
 Merrill, G. P. 1907 A, 20.
 Mississippian; Pennsylvania.

Strepsodus dawsoni Hay.

- Hay, O. P. 1902 A, 360.
 Lambe, L. M. 1904 C, 19, 35, 43.
 Pennsylvanian; Nova Scotia.

Strepsodus hardingi (Dawson).

- Hay, O. P. 1902 A, 360.
 Lambe, L. M. 1904 C, 18, 34, 43.
 1910 B, 14 (This species?).
 1909 B, 177 (Rhizodus).
 Woodward, A. S. 1900 E, 203.
 1902 D, 203.
 Mississippian (Albert); Nova Scotia.

Strepsodus sp. indet.

- Eastman, C. R. 1907 B, 21. Devonian; New York or Pennsylvania.
 1908 A, 288. Devonian; New York or Pennsylvania.

RHIZODOPSIS Young. Type *Holoptychius sauroides* Williamson.

- Hay, O. P. 1902 A, 360.
 Allis, E. P. 1919 B, 75.
 Atthey, T. 1868 C, 349, 364.
 Broom, R. 1913 A, 461.
 Gregory, W. K. 1913 D, 806.
 1927 G, 268, fig. 1.
 Jordan, D. S. 1919 B, 344.
 Stensiö, E. A. 1921 A, 131.
 Traquair, R. H. 1878 C, 444.
 1900 C, 505.
 Watson, D. M. S. 1913 F, 957.
 1916 B, 12, pl. i, fig. 2; text-figs. 3, 4.
 Watson and Day 1916 A, 12, 24; text-figs. 3, 4.
 1926 A, 250.

- Wills, L. J. 1916 A, 19.
 Woodward, A. S. 1898 B, 74, 124, fig. 57.
 Zittel and Koken 1911 A, 86.
 Zittel and Schlosser 1923 A, 86, fig. 147.
 Zittel and Woodward 1902 A, 71.

Rhizodopsis? mazonius Hay.

- Hay, O. P. 1902 A, 361.
 Eastman, C. R. 1902 B, 97 (This genus?).
 1902 G, 541 (This genus?).
 1903 B, 194 (This genus?).
 Merrill, G. P. 1907 A, 18.
 Pennsylvanian (Mazon Creek); Illinois.

SAURIPTERIS Hall. Type *S. taylori* Hall.

- Hay, O. P. 1902 A, 361.
 Broom, R. 1913 A, 463, fig. 6.
 Dean, Gudger, Henn 1923 A, 550 (Sauripterus).
 Eastman, C. R. 1917 A, 252.
 Gregory, W. K. 1911 A, 509.
 1912 D, 220.
 1913 D, 807 (Sauripterus).
 1914 C, 267.
 1915 D, 353, fig. 11.
 Gregory, Miner, and Noble 1923 A, 279.
 Jordan, D. S. 1919 B, 214.
 Kingsley, J. S. 1925 A, 244, fig. 258.
 Lydekker, R. 1914 A, 652.

- Sewertsoff, A. N. 1926 D, 83, fig. 11 (Sauripterus).
 Stensiö, E. A. 1918 A, 118 (Sauripterus).
 Wills, L. J. 1916 A, 19.
 Zittel and Koken 1911 A, 87.
 Zittel and Schlosser 1923 A, 86, fig. 30.
 Zittel and Woodward 1902 A, 71 (Gyrop-tychius).

Sauripteris taylori Hall.

- Hall, J. 1843 A, 282, pl. iii, figs. 1-3; text-figs. 130, 131.
 Hay, O. P. 1902 A, 361.

- Broom, R. 1913 A, 461, figs. 2-5.
1913 H, 76, figs. 3, 4.
Claypole, E. W. 1883 C, 279 (Bothriolepis).
1903 A, 320.
Eastman, C. R. 1907 B, 22, 166.
1908 A, 238, 290.
1917 A, 252, pl. ii, fig. 2; pl. vii, fig. 5;
text-figs. 6, 7.

EUSTHENOPTERON Whiteaves. Type *E. foordii* Whiteaves.

- Whiteaves, J. F.* 1881 C, 30.
Hay, O. P. 1902 A, 361.
Allis, E. P. 1923 A, 50.
Bridge, T. W. 1904 A, 479, 740.
Broom, R. 1913 A, 459, fig. 1.
Bryant, W. L. 1919 A, 1.
Dean, Gudger, Henn 1923 A, 461, 551, 622.
Dollo, L. 1896 A, 91.
Frech, F. 1897 A, 123 (Eustenopteron).
Goodrich, E. S. 1901 A, 311.
1904 A, 500.
1908 A, 766.
1909 A, 509.
1924 A, 936.
Gregory, W. K. 1911 A, 509.
1913 D, 807.
1915 D, 353, fig. 11.
1920 A, 219.
Gregory, Miner, and Noble 1923 A, 279.
Jordan, D. S. 1920 C, 418 (Eusthenopleuron).
1923 A, 108.
Kiaer, J. 1924 A, 93, 111, fig. 40.
Lydekker, R. 1914 A, 652.
Moodie, R. L. 1915 H, 643.
Petronievics, B. 1918 B, 471, figs. 1, 2.
Pompeckj, J. F. 1913 A, 1136.
Regan, C. T. 1904 A, 336.
Romer, A. S. 1922 B, 541, 544.
Schmalhausen, J. J. 1913 A, 54.
1913 B, 757.
Sewertzoff, A. N. 1925 A, 277.
Stensiö, E. A. 1921 A, 129, 133.
1925 A, 68.
1925 B, 145.
Sushkin, P. P. 1910 A, 251.
1927 A, 264, 265, 280.
Thevenin, A. 1910 A, 37.
Traquair, R. H. 1900 C, 505.
Watson, D. M. S. 1913 D, 26.
1916 B, 25.
1917 B, 61 (Eusthenopteron).
1925 A, 846, 847.

- Gregory, W. K.* 1915 D, 360, pl. iv; text-fig. 9.
Hussakof, L. 1908 A, 58, figs. 27, 28.
Hussakof and Bryant 1919 A, 180.
Lull, R. S. 1917 B, 488, fig. 141.
Moodie, R. L. 1915 G, 371.
Upper Devonian (Catskill); Pennsylvania.

- Watson, D. M. S.* 1926 A, 195, 248, figs. 4, 5,
34, 35.
Watson and Day 1916 A, 23.
Watson and Gill 1923 A, 215.
Whiteaves, J. F. 1907 B, 253.
1908 A, 105.
Woodward, A. S. 1922 B, 29.
Zittel and Koken 1911 A, 87.
Zittel and Schlosser 1923 A, 86, fig. 30a.

Eusthenopteron foordii Whiteaves.

- Whiteaves, J. F.* 1881 C, 30.
Hay, O. P. 1902 A, 361.
Abel, O. 1919 A, 166, fig. 124.
Bridge, T. W. 1904 A, 479, fig. 276.
Broom, R. 1922 B, 459, fig. 7.
Bryant, W. L. 1919 A, 1-23, pls. i-xviii.
Clarke, J. M. 1913 A, 113.
Claypole, E. W. 1883 C, 278.
Eastman, C. R. 1907 B, 17.
1908 A, 280.
Goodrich, E. S. 1901 A, 311, pl. xvi; text-fig. F.
1909 A, 509, figs.
Gregory, W. K. 1915 D, 359, fig. 8.
1922 A, 535, figs. 3-5.
Hussakof, L. 1912 B, 131, fig. 2.
Hussakof and Bryant 1919 A, 176, pl. lxx, fig. 2.
Jaekel, O. 1909 D, 719, fig. 11.
1911 A, 76, fig. 78.
Lambe, L. M. 1904 C, 14, 34, 43.
1912 A, 5.
Moodie, R. L. 1913 A, 255.
Oswald, F. 1911 A, 407, fig. 8.
Pehrson, T. 1922 A, 55, fig. 22 (E. foordii).
Rogers, A. F. 1924 A, 546.
Schmalhausen, J. J. 1913 A, 54.
Stensiö, E. A. 1921 A, 133, fig. 57.
1922 A, 1249, fig. 4 (E. foordi).
Watson and Day 1916 A, 19.
Whiteaves, J. F. 1907 B, 254.
Woodward, A. S. 1922 B, 30, fig. 2.
Upper Devonian (Scaumenac); Quebec.

RABDIOLEPIS Emmons. Type *R. speciosa* Emmons.

- Hay, O. P.* 1902 A, 360.
Deecke, W. 1913 A, 72 (Rhabdolepis).
Jordan, D. S. 1919 B, 275.
Tornquist, A. 1904 A, 349 (Rhabdolepis).

Rabdiolepis speciosa Emmons.

- Hay, O. P.* 1902 A, 360.
Hawkins, A. C. 1914 A, 153 (Radiolepis).
Lyman, B. S. 1894 A, 212 (Radiolepis).
Triassic (Newark); North Carolina, Penn-
sylvania.

CÆLOSTEUS Newb. Type *C. ferox* Newb.

- Hay, O. P.* 1902 A, 361.
Belongs possibly among the sharks and rays.

Cælosteus ferox Newb.

- Hay, O. P.* 1902 A, 361.
Hussakof, L. 1908 A, 29.
Mississippian (St. Louis); Illinois.

OSTEOLEPIDIDÆ Cope.

- Cope, E. D. 1889 R, 856 (Osteolepididæ).
 Hay, O. P. 1902 A, 361 (Osteolepidæ).
 Abel, O. 1919 A, 161 (Osteolepidæ).
 Allis, E. P. 1919 A, 378 (Osteolepidæ).
 1919 B, 76 (Osteolepidæ).
 Arltdt, T. 1907 D, 679 (Rhombodipterini).
 1912 A, 648, 658 (Osteolepidæ).
 1923 A, 491 ("osteolepiden").
 Bridge, T. W. 1904 A, 477 (Osteolepidæ).
 Case, E. C. 1926 B, 196 (Osteolepidæ).
 Dean, Gudger, Henn 1923 A, 401, 622 (Osteolepidæ).
 Dollo, L. 1896 A, 91 (Osteolepidæ).
 Goodrich, E. S. 1904 A, 499 (Osteolepidæ); 500 Glyptopomidæ).
 1908 A, 760, 765 (Osteolepidæ).
 1909 A, 285 (Glyptopomidæ).
 1919 A, 181 (Osteolepidæ).
 Gregory, W. K. 1912 D, 220 (Osteolepida).
 1915 D, 326, 355 (Osteolepidæ).
 Huxley, T. H. 1861 D, 431, 442 (Saurodipterini).
 Jordan, D. S. 1905 A, i, 603 (Osteolepidæ).
 1907 B, 229, 760 (Osteolepidæ).
 1923 A, 109 (Osteolepidæ).
 Lütken, C. 1871 A, 290 ("rhombodipteriens").
 Pompeckj, J. F. 1913 A, 1135, 1136 (Osteolepidæ); 1137 (Glyptopomidæ).
 Rosén, N. 1916 A, 17 ("osteolepidote").
 Schlosser, M. 1917 A, 133 ("osteolepiden").
 Steinmann, G. 1927 A, 77 ("osteolepiden").
 Stensiö, E. A. 1918 A, 117 (Osteolepidæ).
 Stromer, E. 1935 H, 216 (Osteolepidæ).
 Sushkin, P. 1927 A, 264 ("osteolepids").
 Traquair, R. H. 1900 C, 505 (Osteolepidæ).
 Watson, D. M. S. 1914 F, 780 ("osteolepids").
 1921 A, 333 ("osteolepids").
 1925 A, 816-868 ("osteolepids").
 1926 A, 195, 243, figs. 1-3 ("osteolepids").
 Watson and Day 1923 A, 210 ("osteolepids").
 Zittel and Koken 1911 A, 87 (Osteolepidæ).
 Zittel and Schlosser 1923 A, 87 (Osteolepidæ).
 Zittel and Woodward 1902 A, 71 (Osteolepidæ).

OSTEOLEPIS Valenciennes. Type *O. macrolepidotus* Agassiz.

- Valenciennes, A. 1829, Trans. Geol. Soc. Lond. (2), iii, 144.
 Abel, O. 1919 A, 162, fig. 118.
 1920 A, 339, fig. 537.
 Agassiz, L. 1833 A, 472.
 Allis, E. P. 1919 B, 75.
 1922 B, 239.
 Bryant, W. L. 1919 A, 6, 8.
 Egerton, P. G. 1852 C, 6 L, 5.
 Giebel, C. G. 1855 A, 113.
 Goodrich, E. S. 1919 A, 181, figs. 1-6.
 1924 A, 935.
 Gregory, W. K. 1913 D, 806.
 1919 B, 422, fig. 1.
 1920 A, 111, 219, figs. 1, 2.
 1922 A, 542, fig. 346.
 Heilprin, A. 1887 A, 149, 301.
 Huxley, T. H. 1861 D, 433, fig. 8.
 Jaekel, O. 1903 F, 37.
 Kiaer, J. 1915 A, 48, 55.
 Kingsley, J. S. 1925 A, 103, fig. 110.
 Klaatsch, H. 1890 A, 144, 220.
 Miller, H. 1851 A, 91.
 Osborn, H. F. 1916 E, 605, fig. 14.
 1917 B, 170, fig.
 Pehrson, T. 1922 A, 52.
 Pompeckj, J. F. 1920 A, 110.
 Rohon, J. V. 1889 A, 13, pl. ii.
 Scupin, H. 1896 A, 153, pl. ix, fig. 1.
 Steinmann, G. 1907 A, 409, fig. 715.
 Stensiö, E. A. 1921 A, 133.
 1922 A, 1258.
 Traquair, R. H. 1880 A, 150, 151.
 Watson, D. M. S. 1916 B, 20, text-fig. 5.
 1921 A, 334.
 1925 B, 385, fig. 1.
 1926 A, 205, 242.
 Watson and Day 1916 A, 20, text-fig. 5.
 Woodward, A. S. 1891 A, 368.
 1922 B, 28.
 Zittel and Schlosser 1923 A, 87, fig. 148.
Osteolepis sp. indet.
 Kiaer, J. 1915 A, 48. Upper Devonian; Ellesmere Land.

PARABATRACHUS Owen. Type *P. colei* Owen.

- Hay, O. P. 1902 A, 362.
 Bardeleben, K. 1907 A, 36 (Megalichthys).
 Barkas, T. P. 1869 A, 43 (Parabatrachus, Megalichthys).
 Bronn, H. G. 1849 A, 661 (Megalichthys).
 Broom, R. 1913 H, 77 (Megalichthys).
 Case, E. C. 1908 C, 579 (Ectosteorhachis).
 Day, H. 1915 A, 430 (Megalichthys).
 Gregory, W. K. 1913 D, 803 (Ectosteorachis, Megalichthys).
 1915 D, 326, fig. 7 (Megalichthys).
 Humphreys, J. 1908 A, 13 (Megalichthys).
 Hussakof, L. 1911 A, 168 (Megalichthys).
 Huxley, T. H. 1861 D, 433 (Megalichthys).
 Jordan, D. S. 1905 A, i, 604.
 1907 B, 230.
 1919 B, 254.
 Lakjer, T. 1927 A, 210 (Megalichthys).
 M'Coy, F. 1848 A, 3 (Centrodus; not of Giebel, 1847).
 Owen, R. 1845 B, 76 (Megalichthys).
 1876 E, 45.
 Rosén, N. 1916 A, 16, fig. 8 (Megalichthys).
 Schlosser, M. 1917 A, 133.
 Stensiö, E. A. 1921 A, 131 (Megalichthys).
 Sushkin, P. P. 1927 A, 265, 280, fig. 2 (Megalichthys).
 Watson, D. M. S. 1912 A, 5 (Megalichthys).
 1913 F, 957 (Megalichthys).
 1921 A, 334 (Megalichthys).
 1926 A, 242, 245, figs. 32, 33, 36-39 (Megalichthys).
 Woodward, A. S. 1911 C, 46 (Megalichthys).
 1915 B, lxxi (Megalichthys).
 1924 A, 116, fig. 8.
 Zittel and Schlosser 1923 A, 87 (Megalichthys).
 Zittel and Woodward 1902 A, 71 (Megalichthys).

Parabatrachus ciceronius (Cope).

- Hay, O. P. 1902 A, 362.
 Beede, J. W. 1907 A, 119.
 Case, E. C. 1915 A, 96 (Megalichthys).
 Hussakof, L. 1911 A, 169 (Megalichthys).
 Permian (Wichita? Clear Fork?); Texas.

Parabatrachus macropomus (Cope).

- Hay, O. P. 1902 A, 362.
 Eastman, C. R. 1903 B, 187 (Megalichthys).
 Merrill, G. P. 1907 A, 13 (Megalichthys).
 Pennsylvanian; Kansas.

Parabatrachus maxillaris (Agassiz).

- Hay, O. P. 1902 A, 362.
 Etheridge, R. 1878 A, 269 (Megalichthys hibberti).

Goodrich, E. S. 1909 A, 217, fig. 190 (Megalichthys hibberti).

Lambe, L. M. 1904 C, 19, 35, 43.
 Pennsylvanian; Nova Scotia.

Parabatrachus nitidus (Cope).

- Hay, O. P. 1902 A, 362.
 Beede, J. W. 1907 A, 119.
 Case, E. C. 1915 A, 96 (Megalichthys).
 Cope and Matthew 1915 A, pl. i (Ectosteorhachis; Megalichthys=Palæobatrachus).
 Gregory, W. K. 1915 D, 360 (Megalichthys).
 Hussakof, L. 1908 A, 58.
 1911 A, 169, pl. xxx, figs. 1-4; pl. xxxi, fig. 3; text-fig. 53 (Megalichthys).
 Permian (Wichita); Texas.

GLYPTOPOMUS Agassiz. Type *G. minor* Agassiz.

- Hay, O. P. 1902 A, 362.
 Abel, O. 1919 A, 53, fig. 26.
 Allis, E. P. 1919 B, 76.
 1922 B, 239.
 Bryant, W. L. 1919 A, 8.
 Goodrich, E. S. 1904 A, 500.
 1909 A, 510, figs.
 Huxley, T. H. 1859 E, 444.
 1861 D, 424, fig. 4.
 1866 B, 20, pl. i.
 Pompeckj, J. F. 1913 A, 1136.
 Rosén, N. 1916 A, 17.
 Stensiö, E. A. 1918 A, 120.
 1921 A, 133.
 Suschkin, P. P. 1927 A, 264.

Watson, D. M. S. 1916 B, 8, pl. i, figs. 4, 5;
 text-fig. 2.

Watson and Day 1916 A, 8, 21, pl. i, figs. 4, 5;
 text-fig. 2.

Woodward, A. S. 1890 F, 147.

Zittel and Koken 1911 A, 87.

Zittel and Schlosser 1923 A, 87.

Glyptopomus sayrei Newb.

- Hay, O. P. 1902 A, 362.
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 22.
 1908 A, 290.
 Upper Devonian (Catskill); Pennsylvania.

SPERMATODUS Cope. Type *S. pustulosus* Cope.

- Cope, E. D. 1894 F, 438.
 Hay, O. P. 1902 A, 795.
 Hussakof, L. 1911 A, 172.
 The systematic position of this genus is extremely doubtful.

Spermatodus pustulosus Cope.

- Cope, E. D. 1894 F, 438, text-fig. 4.
 Hay, O. P. 1902 A, 795.
 Case, E. C. 1915 A, 96.
 Hussakof, L. 1908 A, 101.
 1911 A, 172, pl. xxxii.
 Permian (Wichita? Clear Fork?); Texas.

ONYCHODONTIDÆ Woodward.

- Hay, O. P. 1902 A, 362.
 Abel, O. 1919 A, 166.
 Eastman, C. R. 1907 B, 23, 168.
 1908 A, 240.
 Goodrich, E. S. 1909 A, 286.

Jordan, D. S. 1907 B, 230, 760.
 1923 A, 109.

Zittel and Koken 1911 A, 87.

Zittel and Schlosser 1923 A, 87 (Onychodontidæ).

ONYCHODUS Newberry. Type *O. sigmoides* Newb.

- Hay, O. P. 1902 A, 363.
 Barkas, W. J. 1874 D, 551.
 Bryant, W. L. 1919 A, 11.
 Claypole, E. W. 1903 A, 312.
 Eastman, C. R. 1902 B, 157.
 1907 B, 164, 168, 193, 232.
 1908 A, 240.
 Hussakof and Bryant 1919 A, 178.
 Jaekel, O. 1900 A, 145.
 1906 B, 76.
 1927 B, 338.
 Newberry, J. S. 1870 E, 18.
 1873 G, 145.

Norton, W. H. 1906 A, 357.
 Storms, R. 1891 A, 143, 145.
 Traquair, R. H. 1898 A, 68.
 Weller, S. 1902 A, 427, 429.
 Woodward, A. S. 1889 K, 407.
 1890 F, 147.

Onychodus hopkinsi Newb.

- Hay, O. P. 1902 A, 363 (*O. sigmoides*, in part).
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 169, 230, pl. iii, fig. 3.
 1908 A, 241, pl. i, fig. 3.
 Upper Devonian (Chemung, Marcellus); New York.

Onychodus orton Newb.

- Hay, O. P. 1902 A, 363.
 Claypole, E. W. 1896 B, 353.
 1903 A, 320.
 Eastman, C. R. 1907 B, 19.
 1908 A, 285.
 Zittel and Koken 1911 A, 88, fig. 157.
 Zittel and Schlosser 1923 A, 88, fig. 151.
 Upper Devonian (Huron); Ohio.

Onychodus sigmoides Newb.

- Hay, O. P. 1902 A, 363.
 Arey, M. F. 1906 A, 425, fig. 48.
 Branson, E. B. 1922 A, 35, 164, pl. xxxi, fig. 3.
 Clarke and Luther 1904 A, 42.
 Claypole, C. W. 1903 A, 320.
 Cleland, H. F. 1911 A, 157, pl. xlvii, fig. 5 (This species?).
 Eastman, C. R. 1907 B, 14, 16, 168, 232, pl. i, fig. 3.
 1908 A, 240, 279.
 Hussakof, L. 1908 A, 57.
 Hussakof and Bryant 1919 A, 10, 15, 17, 178, pl. lviii; text-fig. 59.
 Lambe, L. M. 1904 C, 16, 34, 43.
 1912 A, 4.
 Moodie, R. L. 1926 A, 66.
 Newberry, J. S. 1874 H, 192.

- Newberry, J. S. 1889 A, 56, pl. xxxiv.
 Orton, E. 1878 A, 610, 625 (*O. sigmoides*); 636 (*O. hopkinsi*).
 Stauffer, C. R. 1909 A, 88, 124, 169.
 Whiteaves, J. F. 1877 A, 319.
 Zittel and Koken 1911 A, 88, fig. 156.
 Zittel and Schlosser 1923 A, 87, fig. 150.
 Upper Devonian (Genesee); New York:
 Middle Devonian (Hamilton); Wisconsin:
 (Callaway); Missouri: (Cedar Valley); Iowa:
 (Columbus and Delaware); Ohio: (Onondaga);
 New York: (Corniferous); Ontario.

Onychodus sp. indet.

- Hay, O. P. 1902 A, 363.
 Eastman, C. R. 1907 B, 16, 169. Middle Devonian (Cedar Valley); Iowa; pl. iii, fig. 2 (*O. sigmoides*?); Devonian (Hamilton); New York.
 1908 A, 241, 279. Devonian; Wisconsin, New York.
 Lambe, L. M. 1904 C, 34. Devonian (Cuboides); Manitoba.
 Norton, W. H. 1906 A, 356. Middle Devonian (Cedar Valley); Iowa.
 Teller, E. E. 1911 A, 271. Devonian (Hamilton); Wisconsin.
 Tyrrell, J. B. 1892 A, 209. Upper Devonian; Manitoba.

Order ACTINISTIA Cope.

- Hay, O. P. 1902 A, 363.
 Cope, E. D. 1871 T, 451.
 1891 N, 19.
 Eastman, C. R. 1908 A, 69, 241.
 1908 B, 357.
 1911 A, 20.

- Goodrich, E. S. 1909 A, 287 (*Cœlacanthini*).
 1913 A, 83 (*Cœlacanthini*).
 Gregory, W. K. 1907 D, 448.
 1920 A, 220.
 Jordan, D. S. 1905 A, i, 602, 604.
 1907 B, 228, 230, 760.
 Sewertzoff, A. N. 1923 B.

CŒLACANTHIDÆ King.

- King, W. 1850 A, 235.
 Hay, O. P. 1902 A, 363.
 Abel, O. 1912 F, 445 456 ("*cœlacanthiden*").
 1919 A, 167.
 Agassiz, L. 1844 D, 142 ("*cœlacanthes*").
 Allis, E. P. 1919 A, 376.
 1922 A, 149.
 1923 A, 41, 51.
 Arltdt, T. 1907 D, 646 (*Cœlacanthini*).
 1912 A, 662, 663.
 1923 A, 491 ("*cœlacanthiden*").
 Boulenger, G. A. 1902 B, 296, 298.
 Bridge, T. W. 1904 A, 480.
 Bronn, H. G. 1849 A, 781, seq. (*Cœlacanthi*).
 Carus, V. 1875 A, 593 (*Cœlacanthini*).
 Cockerell, T. D. A. 1913 B, 120.
 Cope, E. D. 1891 N, 19.
 Cunningham, J. T. 1912 A, 258.
 Dean, Gudger, Henn 1923 A, 460, 551, 622.
 Deecke, W. 1926 A, 194 ("*cœlacanthiden*").
 Eastman, C. R. 1905 B, 101.
 1908 A, 242.
 1911 A, 28, 42.
 Egerton, P. G. 1854 A, 369 (*Cœlacanthi*).
 Fitzinger, L. J. 1873 A, 50 (*Cœlacanthi*).
 Goodrich, E. S. 1901 A, 316.
 1904 A, 501 (*Cœlacanthidæ*).

- Goodrich, E. S. 1908 A, 766.
 1909 A, 290.
 Gregory, W. K. 1907 D, 448.
 Günther, A. C. 1872 A, 559 ("*cœlacanths*").
 Hay, O. P. 1901 B, 72.
 Hoernes, R. 1886 A, 551.
 Huxley, T. H. 1861 D, 435, 440, 444 (*Cœlacanthini*).
 1862 A, L ("*cœlacanths*").
 1866 B, 24, 63 (*Cœlacanthini*).
 Jaekel, O. 1906 B, 76 ("*cœlacanthiden*").
 Jordan, D. S. 1905 A, i, 605.
 1907 B, 760.
 1923 A, 109.
 Kiaer, J. 1924 A, 111 (*Cœlacanthini*).
 Klaatsch, H. 1890 A, 221 ("*cœlacanthinen*").
 Lütken, C. 1868 C (*Cœlacanthi*).
 1871 A, 291 ("*cœlacanthiens*").
 Owen, R. 1860 E, 131 (*Cœlacanthi*).
 Pehrson, T. 1922 A, 40 ("*cœlacanths*").
 Pompeckj, J. F. 1913 A, 1135, 1136.
 Schlosser, M. 1917 A, 133, 134, 136, 138, 139 ("*cœlacanthiden*").
 Schmalhausen, J. J. 1913 A, 55.
 Sewertzoff, A. N. 1923 B (*Cœlacanthini*).
 1922 B, 167 ("*cœlacanthiden*").
 Steinmann, G. 1927 A, 12 ("*cœlacanthiden*").

- Stensiö, E. A. 1918 A, 120 ("coelacanthids").
 1921 A, 43, 120.
 1922 A, 1259 ("coelacanthids").
 1925 A, 65, 68, 176, 182 ("coelacanthids").
 1925 B, 162, 172.
 1927 A, 32.
- Stromer, E. 1925 B, 356 (Coelacanthini).
- Traquair, R. H. 1880 A, 158.
 1900 C, 505.
 1905 A, 85.
- Watson, D. M. S. 1921 A, 333 ("coelacanth").
- Watson, D. M. S. 1925 A, 847, 849 ("coelacanth").
 1926 A, 200, 245 ("coelacanth").
 1927 A, 454 ("coelacanth").
- Whitehouse, R. H. 1910 B, 609.
- Woodward, A. S. 1898 A, 78.
 1922 B, 28 ("coelacanth").
 1922 C, 83.
- Zittel and Koken 1911 A, 88.
 Zittel and Schlosser 1923 A, 88.
 Zittel and Woodward 1902 A, 72.
- Zograf, N. 1887 A, 70 (Coelacanthi).

COELACANTHUS Agassiz. Type *C. granulatus* Agassiz.

- Hay, O. P. 1902 A, 363.
- Alessandri, G. 1910 A, 37.
- Arlt, T. 1923 A, 491.
- Barkas, W. J. 1874 D, 549 (Coelacanthus);
 550 (Conchiopsis).
- Bridge, T. W. 1904 A, 736.
- Bronn, H. G. 1848 A, 318.
 1849 A, 655.
- Case, E. C. 1917 A, 125.
- Cockerell, T. D. A. 1913 B, 121.
- Davis, J. W. 1880 C, 60, 67.
- Dean, Gudger, Henn 1923 A, 461, 622.
- Deecke, W. 1913 A, 80.
- Dollo, L. 1896 A, 91.
- Dormitzer, M. 1852 A, 61.
- Eastman, C. R. 1903 B, 189.
 1908 A, 244, 246.
 1908 B, 357.
 1915 B, 440.
 1917 A, 270.
- Giebel, C. G. 1855 A, 113.
- Goodrich, E. S. 1908 A, 766.
 1909 A, 289.
- Heckel, J. J. 1850 A, 362, 365.
- Heilprin, A. 1887 A, 301, 302.
- Huxley, T. H. 1861 D, 435, 437.
 1862 A, li.
 1866 B, 23, pls. ii-v.
- Jaekel, O. 1903 A, 119.
- Jordan, D. S. 1905 A, 11, 604.
 1907 B, 231.
- Lütken, C. 1868 C, 56, fig. 9.
- Osburn, R. C. 1907 A, 425.
- Priem, F. 1908 B, 5.
- Reis, O. M. 1900 A, 187.
- Stensiö, E. A. 1921 A, 44, 120.
- Traquair, R. H. 1880 A, 158.
 1905 A, 85.
- Watson, D. M. S. 1921 A, 333.
 1926 A, 199, 245.
- Wellburn, E. D. 1901 A, 71.
 1901 B, 161.
 1902 A, 474, fig.
- Woodward, A. S. 1898 G, 529, fig.
- Zittel and Koken 1911 A, 88.
- Zittel and Schlosser 1923 A, 88.
- Zittel and Woodward 1902 A, 72.

Coelacanthus banffensis Lambe.

- Lambe, L. M. 1916 B, 38, pl. i.
- Raymond, P. E. 1925 B, 553.
 Triassic? (Upper Banff); Alberta.

Coelacanthus elegans Newb.

- Hay, O. P. 1902 A, 364.
- Eastman, C. R. 1917 A, 271, pl. ix, figs. 5, 6;
 pl. xi, figs. 3, 4.
- Hussakof, L. 1908 A, 54, pl. iv, fig. 1.
- Hussakof and Bryant 1919 A, 181.
- Jordan, D. S. 1907 B, 230, fig. 164.
- Reis, O. M. 1900 A, 191.
 Pennsylvanian; Ohio.

Coelacanthus exiguus Eastman.

- Eastman, C. R. 1902 G, 538, 541, fig. 3.
- Eastman, C. R. 1902 B, 97.
 1903 B, 189, 194, pl. v, fig. 48.
 1917 A, 271, pl. x, fig. 1.
 Pennsylvanian (Mazon Creek); Illinois.

Coelacanthus ornatus Newb.

- Hay, O. P. 1902 A, 364.
- Eastman, C. R. 1917 A, 271.
- Hussakof, L. 1908 A, 54, pl. iv, fig. 2.
 Pennsylvanian; Ohio.

Coelacanthus robustus Newb.

- Hay, O. P. 1902 A, 364.
- Cockerell, T. D. A. 1913 B, 120.
- Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Pennsylvanian (Illinois); Ohio.

Coelacanthus welleri Eastman.

- Eastman, C. R. 1908 B, 358, fig. 1.
- Alessandri, G. 1910 A, 37.
- Eastman, C. R. 1908 A, 247, pl. iii, fig. 7; text-
 fig. 36.
 1911 A, 44.
 1917 A, 270.
- Van Tuyl, F. M. 1925 A, 55, 62.
 Mississippian (Kinderhook); Iowa.

Coelacanthus sp. indet.

- Eastman, C. R. 1908 C, 255. Mississippian
 (Kinderhook); Iowa.

DIPLURUS Newb. Type *D. longicaudatus* Newb.

- Hay, O. P. 1902 A, 364.
- Deecke, W. 1913 A, 74.
 1926 A, 194.
- Eastman, C. R. 1905 B, 101.
 1911 A, 21, 44.
- Stensiö, E. A. 1921 A, 45, 129.

Diplurus longicaudatus Newb.

- Hay, O. P. 1902 A, 364.
 Bayley, Kummel and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 101.
 1911 A, 28, 44.

- Hussakof, L. 1908 A, 55.
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 209, 214.
 Woodward, A. S. 1890 E, 367.
 Triassic (Newark); New Jersey.

PEPLORHINA Cope. Type *P. anthracina* Cope.

- Hay, O. P. 1902 A, 364.
 Barkas, W. J. 1874 D, 552.
 Jordan, D. S. 1919 B, 368.

- Hussakof, L. 1911 A, 170.
 Pennsylvanian; Ohio.

Peplorhina anthracina Cope.

- Hay, O. P. 1902 A, 364.

Peplorhina exanthematica Cope.

- Hay, O. P. 1902 A, 364.
 Pennsylvanian; Ohio.

TARRASIIDÆ Traquair.

- Traquair, R. 1881 A, 61.
 Abel, O. 1919 A, 163.
 Jordan, D. S. 1923 A, 109.
 Stensiö, E. A. 1921 A, 147.
 Traquair, R. H. 1890 G, 494 (Tarrasius).
 1891 A, 127.

- Woodward, A. S. 1891 A, 317.
 1898 A, 81 (Tarassius).
 Zittel, K. A. 1890 A, 129.
 Zittel and Schlosser 1923 A, 84 (Syn. of *Cœlacanthidæ*).

PALÆOPHICHTHYS Eastman. Type *P. parvulus* Eastman.

- Eastman, C. R. 1908 A, 252.
 1917 A, 272.
 Jordan, D. S. 1923 A, 109.
 Zittel and Schlosser 1923 A, 88.

Palæophichthys parvulus Eastman.

- Eastman, C. R. 1908 A, 253, fig. 37.
 1917 A, 272, pl. x, fig. 2.
 Pennsylvanian (Mazon Creek); Illinois.

Subclass ACTINOPTERI Cope.

The literature of the Teleostomi is here included. The group Actinopteri is usually made to contain the Crossopterygia.

- Cope, E. D. 1871 T, 449, 451.
 Hay, O. P. 1902 A, 356 (Teleostomi); 364 (Actinopteri).
 Abel, O. 1912 A, 153 (Teleostomi).
 1919 A, 183 (Actinopterygii).
 1920 A, 336, 341 (Actinopterygii).
 1921 A, 212 ("teleostomen").
 1922 F, 73 ("teleostomen").
 1926 C, 43 ("teleostomen").
 Allis, E. P. 1913 A, 324 (Teleostomi).
 1915 A (Teleostomi).
 1918 B, 257 (Teleostomi).
 1922 C, 2 (Teleostomi).
 Arltdt, T. 1923 A, 491 ("teleostomen").
 Boas, J. E. V. 1914 B, 543 ("knochenfische").
 Bonaparte, C. L. 1838 B, 131 (Teleostomi).
 1848 A, 48 (Teleostomi).
 Boulenger, G. A. 1901 D, 1 (Teleostomi).
 Bridge, T. W. 1904 A, 475 (Teleostomi).
 Cope, E. D. 1885 BB, 64 (Teleostomi).
 1891 N, 10, 19, 21 (Teleostomi, in part; Actinopterygii).
 Cunningham, J. T. 1897 A, 497 ("aetinopterygians").
 1912 A, 246 (Teleostomi).
 Dean, B. 1896 D, 336 ("teleostomes").
 1900 A, 22 (Teleostomi).
 1916 A ("fishes").
 Dean, Gudger, Henn 1923 A, 401 (Actinopterygii); 703 (Teleostomi).
 Dietz, P. A. 1917 A, 87 ("teleostomen").
 1921 A, 433 (Acanthopterygii).
 Dollo, L. 1896 A, 85 ("téléostomiens").

- Dollo, L. 1906 B, 137 ("aetinoptérygiens").
 Eastman, C. R. 1901 C, 329 (Actinopterygii).
 1907 B, 23, 164, 170, 225, 234 (Teleostomi, Actinopterygii).
 1908 A, 69, 255 (Actinopterygii); 66, 69 ("teleostomes").
 1911 A, 20 (Teleostomi).
 1912 A, 228 (Actinopterygii).
 Fowler, H. W. 1911 A, 144.
 Fürbringer, M. 1902 A, 195 ("teleostomen").
 Gill, T. 1905 A, 658 (Teleostomi).
 Goetsch, W. 1920 A, 10, 518 ("teleostomen").
 Goodrich, E. S. 1904 A, 494 (Actinopterygii).
 1908 A, 765 (Teleostomi).
 1908 B, 546 (Actinopterygii).
 1909 A, 302 (Actinopterygii).
 1924 A, 935.
 Gregory, W. K. 1907 D, 448, 457, 460 (Actinopteri); 447 (Teleostomi).
 1915 D, 321, 345 (Actinopterygii).
 1920 A, 220 (Actinopterygii).
 1923 A, 238 (Actinopterygii).
 Hase, A. 1907 A, 658 ("aetinopterygier").
 Hennig, E. 1912 A, 483 ("ganoiden," "teleostier").
 Hertwig, O. 1892 A (Teleostomi).
 Hubbs, C. L. 1919 A, 570 (Actinopterygii, Teleostomi).
 1919 B (Actinopterygii).
 Hubbrecht, A. A. W. 1908 A, 150 (Teleostomi).
 Huene, F. 1926 A, 260 ("teleostomen").
 Hussakof, L. 1906 A, 124 (Teleostomi).
 Jackel, O. 1902 E, 1115 ("teleostomen").
 1907 A, 186 (Teleostomata, Hypostomata).
 1911 A, 66 (Teleostomata).
 1919 A, 110 ("teleostomen").

- Jaekel, O. 1928 A, 43 ("teleostomen").
 Jordan, D. S. 1905 A, i, 598, 599; ii, 555, 595 (Teleostomi).
 1907 B, 225, 246, 424, 760 (Teleostomi).
 1923 A, 111.
 Kerr, J. G. 1908 B, 174 (Teleostomi).
 Kiaer, J. 1924 A, 104, 121 ("teleostomes").
 Klein, E. F. 1879 A, 80 (Acanthopterygii).
 1885 A, 118, 132, 199, 222 (Actinopterygii).
 1886 A, 207, 236, 274 (Acanthopterygii).
 Lönnberg, E. 1902 A (Teleostomi).
 Meek, A. 1916 A, 35, 48 (Teleostomi).
 Moodic, R. L. 1915 I, 139 ("actinopterygians").
 1926 A, 84 (Actinopterygii).
 Parker and Haswell 1897 A, 183 (Teleostomi).
 Patten, W. 1912 A, 386 (Teleostomii).
 Pompcckj, J. F. 1913 A, 1135 (Teleostomi);
 1138 (Actinopterygii).
 Priem, F. 1906 B, 264, figs. 1, 2 ("téléostomes").
 1908 B, 5 ("actinoptérygiens," "téléostomes").
 Regan, C. T. 1904 A, 329 (Teleostomi).
 1906 A, 724 (Teleostomi).
 1909 B, 75 (Teleostomi).
 Schlosser, M. 1917 A, 147 (Teleostomi).
 Schmalhausen, J. J. 1912 A, 558 (Teleostomi).
 1913 A, 4 (Teleostomi).
 1913 C (Teleostomi).
 1923 A, 537, 542 (Teleostomi).
 Sewertzoff, A. N. 1923 B (Actinopterygii, Teleostomi).
 1926 A, 451, 535 ("teleostomes," "actinopterygians").
 Sewertzoff, A. N. 1926 D, 90.
 Shann, E. W. 1919 A, 532 (Teleostomi).
 Starks, E. C. 1926 A, 91.
 Steinmann, G. 1927 A, 74, 76 ("actinopterygier").
 Stensiö, E. A. 1921 A, 137, 148 (Actinopterygii).
 1925 A, *passim* (Actinopterygii); 40 ("teleostomes").
 1925 B, 179, 188 (Teleostomi).
 Stöhr, P. 1882 A, 71 ("teliostier").
 Stromer, E. 1905 C, 184 (Teleostomi).
 1912 A, 25, 48 (Teleostomi).
 1925 B, 364 (Teleostomi).
 Sushkin, P. P. 1910 A, 250 (Actinopterygii, Teleostomi).
 1927 A, 264, 266 (Teleostomi).
 Swinnerton, H. W. 1905 A, 374 (Teleostomi).
 Traquair, R. H. 1900 C, 507 (Actinopterygii, Teleostomi).
 Versluys, J. 1925 B, 182 ("teleostomen").
 Watson, D. M. S. 1926 A, 201, 242 (Actinopterygii).
 Whitehouse, R. H. 1910 B, 590 (Teleostomi).
 Woodward, A. S. 1898 B, 69 (Teleostomi).
 1901 A, v ("actinopterygian fishes").
 1915 B, lxxii (Actinopterygii).
 1922 C, 81, 84 (Teleostomi, Actinopterygii).
 Woodward, H. 1904 B, 141 (Actinopterygii, Teleostomi).
 Wright, W. 1909 A, 671 (Teleostomi).
 Zittel and Koken 1911 A, 84 (Teleostomi); 89 (Actinopterygii).
 Zittel and Schlosser 1923 A, 84 (Teleostomi); 89 ("Actinopterygii").

Superorder GANOIDEI Müller.

- Müller, J. 1845 A, 137.
 Agassiz, L. 1833 A, 470 ("ganoiden").
 1835 B, 331 ("ganoides").
 1835 I, 99 ("ganoidians").
 1844 D, 139 ("ganoides").
 1844 E, 332 ("ganoids").
 1858 A, 9 ("ganoids").
 Allis, E. P. 1922 C, 3.
 1923 B, 132.
 Arltdt, T. 1907 D, 645.
 Ayers, H. 1906 A, 77.
 Bardeleben, K. 1896 A, 113 ("ganoiden").
 Barrell, J. 1915 B, 418 ("ganoids").
 Boas, J. E. V. 1914 B, 542 ("ganoiden").
 Brandt, J. F. 1865 A, 15 ("ganoiden").
 Braus, H. 1901 B, 201 ("ganoiden").
 1906 A ("ganoiden").
 Bronn, H. G. 1862 B, 380 ("ganoiden").
 Carus and Engelmann 1861 A, 1740.
 Cockerell, T. D. A. 1911 F, 367 ("ganoids").
 Collinge, W. E. 1890 A, 499.
 1895 D, 77 ("ganoids").
 Cunningham, J. T. 1897 A, 492 ("ganoids").
 Dana, J. D. 1863 B, 317 ("ganoids").
 1863 C, 343 ("ganoids").
 1863 D, 130, 131 ("ganoids").
 Dean, B. 1896 D, 336 ("ganoids").
 Dean, Gudger, Henn 1923 A, 621, 681.
 Dollo, L. 1889 E, 152 ("ganoides").
 1892 D, 120 ("ganoides").
 1896 A ("ganoides").
 Dohrn, A. 1884 A, 186 ("ganoiden").
 Dormitzer, M. 1852 A, 61 ("ganoiden").
 Drüner, L. 1902 A, 438 ("ganoiden").
 Eastman, C. R. 1898 E, 181 ("ganoids").
 Ebner, V. 1896 A, 146 ("ganoiden").
 Egerton, P. G. 1854 A, 367.
 Eggeling, H. 1906 A, 105 ("ganoiden").
 Fitzinger, L. J. 1873 A, 49, 52.
 Frassetto, F. 1915 A ("ganoidi").
 Fürbringer, K. 1903 A, 377 ("ganoiden").
 Gadow, H. 1896 A, 15 ("ganoids").
 Ganin, M. 1880 A, 143.
 1905 D, 830, 836, 899 ("ganoiden").
 Gaupp, E. 1906 B ("ganoiden").
 Gegenbaur, C. 1867 A, 56 ("ganoiden").
 1867 B, 386 ("ganoiden").
 1870 C, 442 ("ganoiden").
 1879 A, 525 ("ganoiden").
 Goette, A. 1901 A, 533, 552 ("ganoiden").
 Gregory, W. K. 1904 A, 62.
 1917 D, 625 ("ganoids").
 Haeckel, E. 1893 A, xvi ("ganoiden").
 Haller, G. 1924 A, 305 ("ganoiden").
 Hase, A. 1907 A, 656 ("ganoiden").
 Hasse, C. 1872 A, 419 ("ganoiden").
 Hasse and Schwarck 1870 A, 30 ("ganoiden").
 Hatschek, B. 1889 B, 113 ("ganoiden").
 Heckel, J. 1850 A, 358 ("ganoiden").
 1850 B, 143 ("ganoiden").
 1851 A, 219 ("ganoiden").
 Hoernes, R. 1886 A, 546.

- Höfer, B. 1890 A, 103 ("ganoiden").
 Howes, G. B. 1894 A, 87.
 Hubbs, C. L. 1926 A, 73 ("ganoids").
 Hubrecht, A. A. W. 1908 A, 153 ("ganoids").
 Huxley, T. H. 1858 D, 515 ("ganoids").
 1859 H, 33.
 1863 F, 427.
 1869 G, 452.
 1876 E, 121.
 1880 E, 471.
 1881 A, 454 ("ganoids").
 1883 B, 567 ("ganoids").
 Jacobshagen, E. 1920 A, 88 ("ganoiden").
 Jaekel, O. 1902 A, 107 ("ganoiden").
 1926 B, 43 ("ganoiden").
 1926 D, 71 ("ganoiden").
 1927 A, 251 ("ganoiden").
 Jordan, D. S. 1898 A, 176 ("ganoids").
 1905 A, ii, 2, 571.
 1907 B, 225, 247, 760.
 1923 A, 111.
 Kiaer, J. 1924 A, 111 ("ganoids").
 Kingsley, J. S. 1925 A, 11, 32, 98, 236.
 Klaatsch, H. 1890 A, 124, 182 ("ganoiden").
 Kner, R. 1860 B, 818.
 Laaser, P. 1903 A, 572 ("ganoiden").
 Lakjer, T. 1927 A, 278.
 Lavocat, A. 1885 A, 32 ("ganoids").
 Ledouble, A. F. 1903 A, 645 ("ganoids").
 Lütken, C. 1868 C.
 1871 A, 283 ("ganoids").
 Martins, C. 1872 A, 307 ("ganoides").
 Miller, H. 1851 A, 91 ("ganoids").
 Osborn, H. F. 1916 E, 601 ("ganoids").
 Parker, W. K. 1887 B, 54 ("ganoids").
 Pehrson, T. 1922 A.
 Philippi and Frech 1903 A, 11 ("ganoiden").
 Puccioni, N. 1908 A, 56 ("ganoidei").
 Reynolds, S. H. 1897 A, 542.
 Röse, C. 1897 A, 60 ("ganoiden").
 Sabatier, A. 1904 A, 249 ("ganoides").
 Sagemehl, M. 1883 A ("ganoiden").
 Salbey, R. 1868 A, 734 ("ganoiden").
 Schauinsland, H. 1906 A, 427 ("ganoiden").
 Schlosser, M. 1898 D, 120 ("ganoiden").
 1917 A, 133, 137, 142, 146 ("ganoiden").
 Schöne, G. 1902 A, 1 ("ganoiden").
 Scupin, H. 1896 A, 145 ("ganoiden").
 Sewertzoff, A. N. 1896 A, 273 ("ganoiden").
 1897 A, 410 ("ganoiden").
 1923 B.
 1926 A.
 Solger, B. 1880 B, 367 ("ganoiden").
 Stannius, H. 1854 A (Ganoidei).
 Steinmann, G. 1908 A, 205 ("ganoiden").
 1927 A, 9.
 Stephan, P. 1900 A, 294, 316 ("ganoides").
 Stolley, E. 1920 A, 76 ("ganoiden").
 Stromer, E. 1912 A, 28, 48.
 1925 B, 348, 350.
 Traquair, R. H. 1870 A, 177 ("ganoids").
 Uhlmann, E. 1921 A ("ganoiden").
 Veit, O. 1907 A, 174 ("ganoiden").
 Wagner, R. 1843 A ("ganoiden").
 Whitehouse, R. H. 1910 C, 135 ("ganoids").
 Wiedersheim, R. 1892 A, 45 ("ganoiden").
 Woodward, A. S. 1922 C, 96.
 Wright, W. 1909 A, 671 ("ganoids").
 Ziegler, H. E. 1901 A, 231 ("ganoiden").
 Zittel and Koken 1911 A, 90.
 Zittel and Schlosser 1923 A, 90.

Order CHONDROSTEI Müller.

- Müller, J. 1845 A, 119, 137.
 Hay, O. P. 1902 A, 365.
 Allis, E. P. 1905 A, 478, 495.
 1909 A, 202.
 1915 A, 613.
 1918 B, 263.
 1919 A, 374.
 Arltdt, T. 1907 D, 645.
 1923 A, 492 ("chondrostier").
 Beer, G. R. 1926 A, 277.
 Belling, D. E. 1912 A, 52.
 Bonaparte, C. L. 1833 B, 1202 (Eleutheropomi).
 Bridge, T. W. 1878 A, 727 (Selachoidi).
 1904 A, 485.
 Bronn, H. G. 1849 A, 830, seq.
 Carus, V. 1875 A, 594.
 Cope, E. D. 1871 T, 451.
 1891 N, 20.
 Cunningham, J. T. 1912 A, 240, 246, 261, 383.
 Davidoff, M. 1879 A, 485.
 Dean, Gudger, Henn 1923 A, 674.
 Duméril, A. 1870 A, 18, 19 ("chondrostés").
 Eastman, C. R. 1907 B, 23, 170.
 1908 A, 63, 69, 255.
 1911 A, 18, 20, 45.
 1914 A, 140.
 1917 A, 244.
 Emery, C. 1895 A, 224 ("chondroganoides").
 Fürbringer, M. 1902 A, 163 ("chondrosteiden").
 Gadow, H. 1902 B, 359.
 Gaupp, E. 1898 B, 841, 863 ("knorpelganoiden").
 1905 D, 902 ("knorpelganoiden").
 1913 A, 83 ("knorpelganoiden").
 Gegenbaur, C. 1866 A, 123.
 Gill, T. 1905 A, 658.
 1909 B, 838 (Chondroganoidei).
 Goetsch, W. 1920 A, 514.
 Goodrich, E. S. 1904 A, 495.
 1906 A, 351.
 1909 A, 307 (Chondrostei); 315 (Acipenseroidei).
 1912 A, 80.
 Grene, J. R. 1861 A, 227.
 Gregory, W. K. 1907 D, 448, 462 (Acipenseroidei); 462 (Chondrostei); 448, 462 (Heterocerci).
 1920 A, 221.
 Hasse, C. 1893 C, 76 ("knorpelganoiden").
 Heckel, J. 1851 A, 219.
 Hilzheimer, M. 1913 A, 471.
 Hoernes, R. 1886 A, 546, 549.
 Hubbs, C. L. 1919 A, 570.
 Huxley, T. H. 1861 D, 441, 448.
 Jaekel, O. 1906 D, 180.
 1911 A, 49 (Chondrostei); 80 (Heterocerci).
 1919 A, 75, 104.
 1921 A, 222, 234 (Chondrostea).
 1926 A, 174.
 1927 B, 337.

- Jordan, D. S. 1905 A, ii (Lysopteri); 17, 563 (Chondrostei).
 1907 B, 253, 760.
 1923 A, 111 (Chondrostei); 113 (Glanios-tomi, Selachostomi).
 Jordan and Gilbert 1882 A, 82.
 Kehrer, F. A. 1896 A, 351 ("knorpelganoiden").
 Kiaer, J. 1924 A, 108.
 Kingsley, J. S. 1885 A, 92.
 1925 A, 98.
 Klaatch, H. 1893 B, 665 ("knorpelganoiden").
 1893 C, 148 ("knorpelganoiden").
 Lakjer, T. 1927 A, 280 ("chondrostier").
 Leunis and Ludwig 1883 A, 776.
 Lönnberg, E. 1901 A.
 1902 A (Sturiones).
 Luther, A. 1913 A.
 1913 B, 5, 15, 47, 55.
 Lütkin, C. 1868 C.
 Meek, A. 1916 A, 48.
 Miall, L. C. 1872 A, 34.
 Moodie, R. L. 1915 I, 145.
 Parker, W. K. 1881 C, 71 ("chondrostean ganoids").
 Parker and Haswell 1897 A, 203.
 Pompeckj, J. F. 1913 A, 1130 (Chondrostei); 1141 (Chondrosteoidei).
 1926 A, 71.
 Rabl, C. 1901 A, 481 ("chondrosteiden").
 Rauther, M. 1913 A, 1099.
 Regan, C. T. 1904 A, 330, 332.
 1906 A, 729.
 1909 B, 75.
 1923 B, 458.
 Reynolds, S. H. 1897 A, 67, 105, 117, 123, 537.
 Romer, A. S. 1924 A, 121, 127, 128.
 Rosén, N. 1916 A, 22-30.
 Ryder, J. 1885 C, 96.
 1886 A, 74, 77.
 Schlesinger, G. 1909 A, (147).
 Schmalhausen, J. J. 1912 A, 524.
 1913 A, 2.
 Schmalhausen, J. J. 1913 C.
 1916 C, 209.
 1917 A, 108.
 Sewertzoff, A. N. 1896 A, 273 ("knorpel-ganoiden").
 1918 A, 207.
 1923 B.
 1926 A, 451 (Chondrostei); 523 (Chondrosteoidei); 451, 523 (Palæoniscoidei).
 1926 B, 547 (Chondrostei, Chondrosteoidei).
 1926 C, 42 ("knorpelganoiden").
 1926 D, 76, 83.
 1926 E, 556.
 1926 F, 274 ("knorpelganoiden").
 Sewertzoff and Disler 1924 A, 345 ("knorpel-ganoiden").
 Shann, E. W. 1919 A, 556.
 Stensiö, E. A. 1921 A, 271.
 1925 A, 119, 216.
 1927 A, 32.
 Stromer, E. 1912 A, 30 (Chondrostei); 31 (Heterocerci).
 1925 B, 356 (Chondrostei, Heterocerci).
 Suschkin, P. P. 1910 A, 250.
 Terra, P. 1911 A, 204.
 Traquair, R. H. 1880 A, 158.
 1900 C, 508 (Acipenseroidei).
 1911 A, 7 (Acipenseroidei).
 Wallace, A. R. 1876 A, ii, 459.
 Watson, D. M. S. 1925 A, 815, 849.
 Whitehouse, R. H. 1910 B, 593, 594.
 Woodward, A. S. 1906 A, 315.
 1906 C, 276.
 1922 C, 85.
 Woodward, H. 1878 A, 18, 22.
 Zittel and Koken 1911 A, 94 (Chondrostei); 97 (Heterocerci).
 Zittel and Schlosser 1923 A, 94, 97 (Chondrostei, Heterocerci).
 Zittel and Woodward 1902 A, 73.
 Zograf, N. 1887 A, 70.
 1896 B, 320.

Suborder PALÆONISCIFORMES, new name.

- Cope, E. D. 1880 P, 440 (Lysopteri).
 Goodrich, E. S. 1909 A, 309 (Palæoniscoidei).
 Jordan, D. S. 1905 A, ii, 13, 580 (Lysopteri).
 1907 B, 249 (Lysopteri).
 Sewertzoff, A. N. 1923 B, 105-145 (Palæoniscoidei).
 1926 A, 451, 523.
 Zittel and Woodward 1902 A, 75 (Heterocerci).

PALÆONISCIDÆ Owen.

- Owen, R. 1860 E, 136.
 Hay, O. P. 1902 A, 365.
 Abel, O. 1919 A, 186, fig. 170.
 1920 A, 343 ("palæonisciden").
 1921 A, 212 ("palæonisciden").
 Allis, E. P. 1905 A, 490.
 1919 A, 375.
 1919 B, 75.
 1922 A, 149.
 1923 A, 57.
 Arldt, T. 1907 D, 670.
 1923 A, 493 ("palæonisciden").
 Bridge, T. W. 1878 A, 371.
 1904 A, 486.
 Bronn, H. G. 1849 A, 830, seq. (Sauroidei).
 Carus V. 1875 A, 591 (Palæoniscini).
 Cope, E. D. 1891 N, 20.
 Cunningham, J. T. 1897 A, 498.
 Deecke, W. 1913 A, 72 ("palæonisciden").
 Eastman, C. R. 1905 A, 57.
 1907 B, 23, 171.
 1908 A, 256.
 1913 A, 119 ("palæoniscid").
 1917 A, 273.
 Fitzinger, L. J. 1873 A, 52 (Palæonisci).
 Gill, E. L. 1923 B, 467.
 Gill, T. 1881 A, 371.
 Goodrich, E. S. 1904 A, 495, 499.
 1908 A, 768.
 1909 A, 309 (Palæoniscidæ, Palæoniscoidei).
 1913 A, 80.
 Gregory, W. K. 1907 D, 448.

- Gregory, W. K. 1915 D, 322.
 Hennig, E. 1915 A, 577 (Palæonisci).
 Hubbs, C. L. 1919 B, 62, 63.
 Jaekel, O. 1911 A, 80 ("palæonisciden").
 1926 D, 70.
 Jordan, D. S. 1905 A, ii, 14, 584.
 1907 B, 250, 760.
 1923 A, 111.
 Kiaer, J. 1924 A, 95, 97, 99, 108, 109, 125, fig. 42 (Palæoniscoidei).
 Lambe, L. M. 1909 B, 176.
 1910 B, 9.
 1912 A, 5.
 Moodie, R. L. 1915 I, 145.
 Pompeckj, J. F. 1913 A, 1140.
 Regan, C. T. 1904 A, 334.
 1923 B, 455, 460.
 Rice and Gregory 1906 A, 172 ("palæoniscids").
 Ridewood, W. G. 1904 A, 69 ("palæoniscid fishes").
 Rosén, N. 1916 A, 18, 30, fig. 9 ("Palæoniscoidei").
 Schlosser, M. 1917 A, 133, 135, 138, 147 ("palæonisciden").
 Scupin, H. 1896 A, 156, 181.
 Sewertzoff, A. N. 1923 B.
 1926 E, 555.
 Steinmann, G. 1907 A, 410.
 Stensiö, E. A. 1921 A, 148, 238.
 1922 A, 1263 ("palæoniscids").
 1925 A, *passim*.
 1925 B, 162, 187.
 Stolley, E. 1920 A, 79 ("palæonisciden").
 Stromer, E. 1905 H, 216.
 1925 B, 360. ("palæonisciden").
 Traquair, R. H. 1879 C, 128.
 1880 A, 157.
 1900 C, 507.
 1901 A, 61.
 1909 A.
 1911 A, 7.
 1911 B.
 1912 A.
 1914 A.
 Trouessart, E. L. 1906 A, 212.
 Watson, D. M. S. 1913 D, 26 ("palæoniscids").
 1923 A, 472.
 1925 A, 815-870, figs. 9-20.
 Woodward, A. S. 1906 A, 313.
 1906 C, 276.
 1911 C, 46 ("palæoniscids").
 1924 A, 113.
 Zittel and Koken 1911 A, 98.
 Zittel and Schlosser 1923 A, 98.
 Zittel and Woodward 1902 A, 75.

GONATODUS Traquair. Type *Amblypterus punctatus* Agassiz.

- Hay, O. P. 1902 A, 365.
 Goodrich, E. S. 1908 A, 768.
 Kiaer, J. 1924 A, 87.
 Stensiö, E. A. 1925 A, 86.
 Traquair, R. H. 1877 D, 265.
 1907 A, 92, fig. 2.
 Watson, D. M. S. 1925 A, 859, fig. 27.
Gonatodus brainerdi (Thomas).
 Hay, O. P. 1902 A, 365.
 Hussakof, L. 1908 A, 74.
 Newberry, J. S. 1874 G, 90, 98 (Palæoniscus).
 1874 H, 212 (Palæoniscus).
 Traquair, R. H. 1907 A, 93.
 Mississippian (Berea grit); Ohio.

AMBLYPTERUS Agassiz. Type *A. latus* Agassiz.

- Hay, O. P. 1902 A, 365.
 Abel, O. 1919 A, 188, fig. 143.
 1920 A, 337, fig. 534.
 Agassiz, L. 1833 A, 371.
 1835 B, 345.
 1835 H, 205.
 1844 C, 268.
 Atthey, T. 1868 C, 361.
 Barkas, W. J. 1874 D, 549.
 Brongniart, C. 1888 C, 57.
 Bronn, H. G. 1837 A, 126.
 1848 A, 28.
 1849 A, 657.
 Coulon, L. 1903 A, 139.
 Deecke, W. 1913 A, 72.
 Egerton, P. G. 1849 B, 1.
 Giebel, C. G. 1855 A, 113, pl. xlvi, fig. 8.
 Goodrich, E. S. 1904 A, 496.
 1909 A, 212.
 Heckel, J. J. 1850 A, 363.
 Heilprin, A. 1887 A, 302.
 Jordan and Evermann 1917 A, 144.
 Kiaer, J. 1924 A, 106.
 Klaatsch, H. 1890 A, 144.
 Mantell, G. A. 1844 A, 633.
 Newberry, J. S. 1857 D, 364.
 Owen, R. 1845 B, 69.
 1866 A, 196.
 Scupin, H. 1896 A, 158.
 Stensiö, E. A. 1925 A, 86, 209.
 Watson, D. M. S. 1925 A, 825, 826, fig. 4.
 Woodward and White 1926 A, 570.
 Zittel and Koken 1911 A, 98.
 Zittel and Schlosser 1923 A, 99.
 Zittel and Woodward 1902 A, 75.
Amblypterus carolinæ Hay.
 Hay, O. P. 1902 A, 365.
 Triassic (Chatham): North Carolina.

HAPLOLEPIS E. A. Miller. Type *Eurylepsis corrugata* (Newb.).

- Hay, O. P. 1902 A, 366.
 Arldt, T. 1923 A, 494 (Eurylepis).
 Barkas, W. J. 1874 D, 550 (Eurylepis).
 Davis, J. W. 1880 C, 60 (Eurylepis).
 Newberry, J. S. 1857 D, 364 (Mekolepis).
 Traquair, R. H. 1914 B, 182 (Eurylepis).
 Zittel and Koken 1911 A, 98 (Eurylepis).
 Zittel and Schlosser 1923 A, 99, fig. 162 (Eurylepis).
 Zittel and Woodward 1902 A, 75 (Eurylepis).

Haplolepis corrugata (Newb.).

Hay, O. P. 1902 A, 366.
Hussakof, L. 1908 A, 74.
Pennsylvanian; Ohio.

Haplolepis granulata (Newb.).

Hay, O. P. 1902 A, 366.
Hussakof and Bryant 1919 A, 191.
Pennsylvanian; Ohio.

Haplolepis minima (Newb.).

Hay, O. P. 1902 A, 366.
Pennsylvanian; Ohio.

Haplolepis ornatissima (Newb.).

Hay, O. P. 1902 A, 366.
Hussakof, L. 1908 A, 75.
Pennsylvanian; Ohio.

Haplolepis ovoidea (Newb.).

Hay, O. P. 1902 A, 366.
Pennsylvanian; Ohio.

Haplolepis serrata (Newb.).

Hay, O. P. 1902 A, 366.
Pennsylvanian; Ohio.

Haplolepis striolata (Newb.).

Hay, O. P. 1902 A, 366.
Pennsylvanian; Ohio.

Haplolepis tuberculata (Newb.).

Hay, O. P. 1902 A, 366.
Hussakof and Bryant 1919 A, 191.
Zittel and Woodward 1902 A, 76, fig. 135
(Eurylepis).
Pennsylvanian; Ohio.

Haplolepis sp. indet.

Eastman, C. R. 1902 B, 97 (Eurylepis).
1902 G, 541 (Eurylepis). Pennsylvanian
(Mazon Creek); Illinois.
1903 B, 194 (Eurylepis). Pennsylvanian
(Mazon Creek); Illinois.
1908 A, 260 (Eurylepis). Mississippian
(Waverly); Kentucky.

CHEIROLEPIS Agassiz. Type *C. traillii* Agassiz.

Hay, O. P. 1902 A, 366.
Abel, O. 1907 D, (162).
1919 A, 187, fig. 141.
Agassiz, A. 1877 A, 124.
Agassiz, L. 1835 B, 345.
1844 C, 269.
Arlt, T. 1923 A, 493.
Barkas, W. J. 1874 D, 549.
Bridge, T. W. 1904 A, 487.
Bronn, H. G. 1848 A, 285.
1849 A, 656.
Coulon, L. 1903 A, 137.
Eastman, C. R. 1907 B, 171.
1908 A, 255.
Giebel, C. G. 1855 A, 113.
Goodrich, E. S. 1904 A, 497.
1908 A, 768, fig. 202.
1909 A, 311, fig. 288.
Gregory, W. K. 1915 D, 322.
Heilprin, A. 1887 A, 149 (Chirolepis).
Huxley, T. H. 1861 D, 458.
Lütken, C. 1871 A, 287.
Osborn, H. F. 1916 E, 605, fig. 14.
1917 B, 170, fig.
Pompeckj, J. F. 1913 A, 1140, fig. 46.
Regan, C. T. 1904 A, 339.

Schlosser, M. 1917 A, 147.
Swertsoff, A. N. 1923 B, 119.
Traquair, R. H. 1880 A, 150, 155.
1900 C, 507.
Watson, D. M. S. 1923 A, 472.
1925 A, 816, 820, 823, 864, figs. 1-3.
Watson and Day 1916 A, 28.
Woodward, A. S. 1906 C, 276.
Zittel and Koken 1911 A, 98.
Zittel and Schlosser 1923 A, 98.
Zittel and Woodward 1902 A, 75.

Cheirolepis canadensis Whiteaves.

Hay, O. P. 1902 A, 366.
Clarke, J. M. 1913 A, 115.
Claypole, E. W. 1883 C, 278.
Eastman, C. R. 1907 B, 17, 171.
1908 A, 256.
1917 A, 273.
Hussakof and Bryant 1919 A, 181, pl. lvii, figs.
1, 2.
Lambe, L. M. 1904 C, 17, 34, 43.
1912 A, 5.
Whiteaves, J. F. 1907 B, 255.
Upper Devonian (Scaumenac); Quebec.

RHADINICHTHYS Traquair. Type *Palæoniscus ornatissimus* Agassiz.

Hay, O. P. 1902 A, 367.
Arlt, T. 1923 A, 494.
Brongniart, C. 1888 C, 61.
Day, H. 1915 A, 422, figs. 1-3.
Eastman, C. R. 1908 A, 257.
1916 A, 655.
1917 A, 273.
Jaekel, O. 1927 B, 338.
Moodie, R. L. 1915 I, 137, 142, 147.
Stensiö, E. A. 1921 A, 148.
1925 A, 86, 209.
Tornquist, A. 1904 A, 347.
Traquair, R. H. 1877 D, 431.

Traquair, R. H. 1890 G, 493.
1911 B, 126.
Watson, D. M. S. 1925 A, 832.
Woodward, A. S. 1924 A, 113, fig. 5.
Woodward and White 1926 A, 570.

Rhadinichthys alberti (Jackson).

Jackson, C. T. 1851 B, 22, pl. i, fig. 1; pl. ii,
figs. 2-6, 8 (Palæoniscus).
Hay, O. P. 1902 A, 367 (R. alberti, R.
cairnsii).
Brongniart, C. 1888 C, 49 (Palæoniscus alberti,
P. cairnsii).

- Dawson, J. W. 1868 A, 131, fig. 62 (*Palæoniscus*).
 Eastman, C. R. 1908 A, 261 (*R. alberti*, *R. cairnsii*).
 Hussakof and Bryant 1919 A, 188, text-fig. 63.
 Jackson, C. T. 1851 C, 281 ("*Palæoniscus*").
 Kiaer, J. 1924 A, 99, fig. 44.
 Lambe, L. M. 1904 C, 18, 34, 43 (*R. alberti*, *R. cairnsii*).
 1909 A, 167, figs. 1, 2 (*R. cairnsii* a syn.).
 1910 B, 18, pl. iii, figs. 1-6 (*R. cairnsii* a syn.).
 Tornquist, A. 1904 A, 350 (*R. cairnsii*).
 Traquair, R. H. 1877 A, 559 (*R. alberti*, *R. cairnsii*).
 Woodward and White 1926 A, 570, 571.
 Young, G. A. 1913 A, 356.
 Mississippian (Albert); New Brunswick.
- Rhadinichthys antiquus** (Williams).
 Hay, O. P. 1902 A, 368 (*Palæoniscus*).
 Eastman, C. R. 1907 B, 18, 171 (*Palæoniscus*. This genus?).
 1908 A, 282.
 1917 A, 273 (To *Rhadinichthys*).
 Hussakof and Bryant 1919 A, 19, 182, 183, pl. lxiii, fig. 3, pl. lxiv; text-figs. 60, 62.
 Upper Devonian (Portage); New York.
- Rhadinichthys deani** Eastman.
 Eastman, C. R. 1908 A, 264, pl. xiii, text-figs. 40, 41.
 Eastman, C. R. 1913 A, 119.
 1916 B, 104.
 1917 A, 273.
 Dean, B. 1912 A, 228.
 Moodie, R. L. 1910 A, 367.
 1911 G, 278.
 1915 I, 139, 142, 147, fig. 4.
 1920 F, 330, figs. 1, 2.
 Parker, G. H. 1908 A, 272 ("fish").
 Wiman, C. 1918 B, 88.
 Mississippian (Waverly); Kentucky.
- Rhadinichthys devonicus** (Clarke).
 Hay, O. P. 1902 A, 368 (*Palæoniscus*).
 Clarke and Ruedemann 1903 A, 768 (*Palæoniscus*).
 Clarke and Luther 1904 A, 62 (*Palæoniscus*).
 Eastman, C. R. 1907 B, 17, 171 (*Palæoniscus*?).
 1908 A, 258, 282.
 Hussakof and Bryant 1919 A, 19, 182, pls. lix-lxiii; pl. lxv, figs. 1, 3; text-figs. 60, 61.
 Merrill, G. P. 1907 A, 13 (*Palæoniscus*).
- Traquair, R. H. 1911 B, 127.
 Upper Devonian (Genesee and Portage), New York: (New Albany); Kentucky.
- Rhadinichthys elegantulus** (Eastman).
 Eastman, C. E. 1908 A, 274 (*Elonichthys*).
 Hussakof and Bryant 1919 A, 189, pl. lxvi, text-fig. 63.
 Lambe, L. M. 1909 A, 167 (*Elonichthys*).
 1910 B, 30 (*Elonichthys*).
 Young, G. A. 1913 A, 356 (*Elonichthys*).
 Mississippian (Albert); New Brunswick.
- Rhadinichthys gracilis** (Newb. and Worth.).
 Hay, O. P. 1902 A, 367.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 1917 A, 274, pl. ix, fig. 4.
 Pennsylvanian (Mazon Creek); Illinois.
- Rhadinichthys leidyianus** (Lea).
 Hay, O. P. 1902 A, 367.
 Merrill, G. P. 1907 A, 14 (*Palæoniscus*).
 Pennsylvanian; Pennsylvania.
- Rhadinichthys? lineatus** (Newb.).
 Hay, O. P. 1902 A, 367.
 Hussakof, L. 1908 A, 95 (This genus?).
 Pennsylvanian; Ohio.
- Rhadinichthys reticulatus** (Williams).
 Hay, O. P. 1902 A, 368 (*Palæoniscus*).
 Eastman, C. R. 1907 B, 18, 171 (To *Rhadinichthys*).
 1908 A, 282.
 1917 A, 273.
 Hussakof and Bryant 1919 A, 182.
 Upper Devonian (Portage); New York.
- Rhadinichthys sp. indet.**
 Branson, E. B. 1911 B, 30, pl. i, figs. 1-6.
 Devonian (Ohio shales); Ohio.
 Eastman, C. R. 1907 B, 172, pl. iv, fig. 11; pl. ix, fig. 4. Devonian (Chemung); Pennsylvania.
 1908 A, 260. Devonian (Chemung); Pennsylvania.
 Hussakof and Bryant 1919 A, 188. Upper Devonian (Portage); New York.
 Kindle, E. M. 1914 C, 238. Devonian (Huron); Ontario.

CANOBIUS Traquair. Type *C. ramsayi* Traquair.

- Traquair, R. H. 1881 A, 46.
 Brongniart, C. 1888 C, 62.
 Lambe, L. M. 1909 A, 167, 172.
 Scupin, H. 1896 A, 158.
 Traquair, R. H. 1890 G, 493.
 1912 A, 171.
 1914 A, 181.
 Woodward, A. S. 1891 A, 430.
- Canobius modulus** (Dawson).
 Hay, O. P. 1902 A, 367 (*Rhadinichthys*).
 Eastman, C. R. 1908 A, 262, fig. 39 (*Rhadinichthys*).
 Lambe, L. M. 1904 C, 18, 35, 43 (*Rhadinichthys*).
 1909 A, 167, 172, figs. 7, 8.
 1910 B, 31, pl. xi, figs. 1-7.
 Traquair, R. H. 1912 A, 171.
 Mississippian (Albert); New Brunswick.
 Nova Scotia.

PYGOPTERUS Agassiz. Type *P. humboldti* Agassiz.

Hay, O. P. 1902 A, 367.

Agassiz, L. 1833 A, 475.

1835 H, 217.

1844 C, 267.

Atthey, T. 1868 C, 362.

Barkas, W. J. 1874 D, 552.

Bionn, H. G. 1848 B, 1066.

1849 A, 662.

Dcecke, W. 1926 A, 186.

Stensiö, E. A. 1921 A, 149, 203.

1925 A, 86, 209.

Wilser, J. L. 1923 A, 68, fig.

Zittel and Koken 1911 A, 98.

Zittel and Schlosser 1923 A, 98.

Pygopterus humboldti Agassiz.

Hay, O. P. 1902 A, 367.

Permian; Europe: Triassic (Newark): Pennsylvania.

PALÆONISCUM Blainv. Type *P. freieslebenense* Blainv.Unless otherwise indicated the authors, as cited, use the form *Palæoniscus*.Hay, O. P. 1902 A, 367 (*Palæoniscum*).

Abel, O. 1912 F, 476.

1919 A, 187, fig. 142.

Agassiz, L. 1833 A, 372.

1835 B, 345.

1835 D, 189.

1835 H, 206.

1844 C, 268.

Atthey, T. 1868 C, 357, pl. xvi.

Barkas, W. J. 1874 D, 55 (*Palæoniscum*).

Bridge, T. W. 1904 A, 486.

Brongiart, C. 1888 C, 57.

Bronn, H. G. 1848 B, 893 (*Palæoniscum*, *Palæoniscus*).

1849 A, 657.

Cculon, L. 1903 A, 137.

Cunningham, J. T. 1897 A, 497.

Cuvier, G. 1825 A, v, 2, 307 (*Palæoniscum*).

Deccke, W. 1913 A, 72.

1926 A, 186.

Dollo, L. 1904 C, 139, 235.

Dormitzer, M. 1852 A, 61.

Eastman, C. R. 1907 B, 171.

1915 B, 440.

1916 A, 655.

1916 B, 104.

1917 A, 273.

Egerton, P. G. 1852 C, 6 C, 1, pl. ii.

Giebel, C. G. 1855 A, 113.

Goodrich, E. S. 1904 A, 496.

1908 A, 757.

1909 A, 310, fig. 286.

Gregory, W. K. 1901 A, 143 (*Palæoniscum*).

Heckel, J. J. 1850 A, 363, 365.

Heilprin, A. 1887 A, 302.

Hennig, E. 1915 A, 577.

1915 C, 52.

Jackson, C. T. 1854 A, 239.

Jaekel, O. 1911 A, 86, figs. 61, 63.

Jordan, D. S. 1905 A, ii, 14, 584 (*Palæoniscum*).1907 B, 250 (*Palæoniscum*).1917 A, 108 (*Palæoniscum*).

Klaatsch, H. 1890 A, 144.

Lönnberg, E. 1901 A.

Lütken, C. 1868 C.

1871 A, 287.

Mantell, G. A. 1844 A, 633.

Miall, L. C. 1872 A, 25.

Müller, J. 1845 A.

1846 C, 118.

Murchison, R. I. 1854 A, 317, fig. 58.

Newberry, J. S. 1857 D, 364.

Pompeckj, J. F. 1913 A, 1141, fig. 47.

Price, P. H. 1927 A, 215, 225, pls. xv, xix.

Redfield, W. C. 1842 A, 23.

Regan, C. T. 1923 B, 461.

Reynolds, S. H. 1897 A, 67.

Rogers, H. D. 1844 A, 249, 251.

Ryder, J. 1885 E, 95.

Scupin, H. 1896 A, 156, pl. ix, figs. 2, 3.

Sewertzoff, A. N. 1926 E, 555.

Steinmann, G. 1907 A, 410.

Stensiö, E. A. 1921 A, 149.

1925 A, 210.

Tornquist, A. 1904 A, 348.

Traquair, R. H. 1901 A, 61.

Watson, D. M. S. 1925 A, 822, 826.

Woodward, A. S. 1898 B, 83, fig. 61.

1906 C, 276, fig. 9.

1922 C, 85, fig. 91.

Zittel and Koken 1911 A, 98.

Zittel and Schlosser 1923 A, 98, fig. 159.

Zittel and Woodward 1902 A, 76.

Palæoniscum scutigerum Newb.

Hay, O. P. 1902 A, 368.

Pennsylvanian; Ohio.

Palæoniscum sp. indet.Bell, W. A. 1913 A, 340, 343 (*Palæoniscus*).

Pennsylvanian (Joggins); Nova Scotia.

Hobbs, W. H. 1901 A, 55 ("Palæoniscus").

Triassic (Newark); Connecticut.

Phillips, W. B. 1912 A, 18 (*Palæoniscus*. This genus?). Permian (Wichita); Texas

Stauffer and Schroyer 1920 A, 146, pl. xiii, figs.

38, 39 (*Palæoniscus*). Permian (Elm Grove);

Ohio.

Tilton, J. L. 1926 B, 394 (This genus?). Permian; West Virginia.

TEGEOLEPIS S. A. Miller. Type *Actinophorus clarkii* Newb.

Hay, O. P. 1902 A, 368.

Jordan, D. S. 1920 C, 458.

Tegeolepis clarkii (Newb.).

Hay, O. P. 1902 A, 368.

Claypole, E. W. 1903 A, 319 (*Actinophorus*).Eastman, C. R. 1907 B, 19 (*Actinophorus*).1908 A, 285 (*Actinophorus*).

Hussakof, L. 1908 A, 102.

Devonian (Cleveland); Ohio.

ELONICHTHYS Giebel. Type *E. germari* Giebel.

- Hay, O. P. 1902 A, 368.
 Arltdt, T. 1923 A, 494.
 Barkas, W. J. 1874 D, 550.
 Brongmart, C. 1888 C, 60.
 Deccke, W. 1913 A, 72.
 Eastman, C. R. 1903 B, 190.
 1917 A, 274.
 Giebel, C. G. 1855 A, 113.
 Goodrich, E. S. 1908 A, 768.
 Raymond, P. E. 1925 B, 553.
 Stensiö, E. A. 1921 A, 149.
 Traquair, R. H. 1877 D, 275.
 1879 B, 119.
 1901 A.
 1907 A.
 Watson, D. M. S. 1925 A, 832, 851, figs. 21-25,
 28, 29.
 Woodward, A. S. 1922 C, 85, fig. 90.
 Zittel and Koken 1911 A, 98.
 Zittel and Schlosser 1923 A, 98.
 Zittel and Woodward 1902 A, 77.

Elonichthys brownii (Jackson).

- Hay, O. P. 1902 A, 368 (*E. browni*).
 Eastman, C. R. 1903 A, 266.
 Hussakof and Bryant 1919 A, 191.
 Lambe, L. M. 1904 C, 18, 35, 43.
 1909 A, 167, 169, figs. 3, 4 (*Palæoniscus*
 jacksoni Dawson a syn.).
 1910 B, 22, pls. iv-ix (*E. browni*).
 Young, G. A. 1913 A, 356.
 Mississippian (Albert); New Brunswick.

Elonichthys cupidineus Lambe.

- Lambe, L. M. 1916 B, 39, pl. ii.
 Raymond, P. E. 1925 B, 553.
 Triassic? (Upper Banff); Alberta.

Elonichthys disjunctus Eastman.

- Eastman, C. R. 1903 B, 191, 194, pl. iii, fig. 31.
 Pennsylvanian (Mazon Creek); Illinois.

Elonichthys elegans (Emmons).

- Hay, O. P. 1902 A, 368.
 Lyman, B. S. 1894 A, 212 (*Radiolepis*).

- Wherry, E. T. 1912 A, 377 (*Radiolepis*. This species?).

Elonichthys ellsii Lambe.

- Lambe, L. M. 1909 A, 171, figs. 5, 6.
 Lambe, L. M. 1910 B, 29, pl. x, figs. 1-6.
 Young, G. A. 1913 A, 356.
 Mississippian (Albert); New Brunswick.

Elonichthys hypsilepis Hay.

- Hay, O. P. 1902 A, 368.
 Andrae, A. 1903 B, 442.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 188, 194.
 1917 A, 274, pl. ix, fig. 3; pl. x, fig. 3.
 Merrill, G. P. 1907 A, 11.
 Pennsylvanian (Mazon Creek); Illinois.

Elonichthys peltigerus Newb.

- Hay, O. P. 1902 A, 368 (*E. peltigerus*, *E. macropterus*).
 Andrae, A. 1903 B, 442.
 Eastman, C. R. 1902 B, 97 (*Amblypterus macropterus* a syn.).
 1902 G, 541.
 1903 B, 194.
 1917 A, 274.
 Newberry, J. S. 1878 D, 810 (*Palæoniscus*).
 Price, P. H. 1927 A, 226, text-fig. 5 (*Palæoniscus*).
 Pennsylvanian; Illinois, Ohio.

Elonichthys perpennatus Eastman.

- Eastman, C. R. 1902 G, 539, 541, fig. 4.
 1902 B, 97.
 1903 B, 190, 194, pl. v, fig. 49.
 1917 A, 275, pl. ix, fig. 1.
 Pennsylvanian (Mazon Creek); Illinois.

Elonichthys sp. indet.

- Woodward, A. S. 1900 E, 203. Carboniferous
 (Horton); Nova Scotia.

SPHÆROLEPIS Fritsch. Type *S. kounoviensis* Fritsch.

- Fritsch, A. 1877, Sitzungsab. böhm. Ges. Wiss.,
 46.
 Jordan, D. S. 1919 B, 389 (*Sphærolepis*).
 Hussakof, L. 1911 A, 170.
 Woodward, A. S. 1891 A, 523.

Sphærolepis arctata (Cope).

- Hay, O. P. 1902 A, 364 (*Peplorhina*).

- Case, E. C. 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 5
 (*Peplorhina*; *Sphærolepis*).
 Hay, O. P. 1900 A, 707 (*Peplorhina*).
 Hussakof, L. 1911 A, 171, pl. xxxi, figs. 1,
 2; text-fig. 54.
 Pennsylvanian (Upper); Illinois; Permian
 (Wichita?, Clear Fork?); Texas.

ACROLEPIS Agassiz. Type *A. sedgwicki* Agassiz.

- Hay, O. P. 1902 A, 369.
 Agassiz, L. 1833 A, 476.
 1835 H, 218.
 1844 C, 267.
 Barkas, W. J. 1874 D, 548.
 Bronn, H. G. 1848 A, 9.
 1849 A, 662.

- Raymond, P. E. 1925 B, 553.
 Stensiö, E. A. 1921 A, 149.
 1925 A, 86, 209.
 Traquair, R. H. 1890 G, 492.
 1909 A.
 Woodward, A. S. 1924 A.
 Zittel and Koken 1911 A, 98.

Zittel and Schlosser 1923 A, 99.
Zittel and Woodward 1902 A, 77.

Acrolepis? hortonensis Dawson.

Hay, O. P. 1902 A, 369.
Lambe, L. M. 1904 C, 18, 35, 43.
Mississippian; New Brunswick.

Acrolepis hussakofi, new species.

Hussakof, L. 1916 A, 348; figs. 1, 2 ("palæoniscid fish").

O'Harra, C. C. 1916 A, 347 ("fishes").
Permian (Minnekahta); South Dakota.

Acrolepis lætus Lambe.

Lambe, L. M. 1916 B, 42, pl. iii.
Raymond, P. E. 1925 B, 553.
Stensiö, E. A. 1921 A, 149.
Triassic? (Upper Banff); Alberta.

Pyritocephalus Fritsch. Type *Palæoniscus sculptus* Fritsch.

Fritsch, A. 1895 A, 86.
Hussakof, L. 1911 A, 173.

Pyritocephalus sp. indet.

Case, E. C. 1915 A, 96.
Hussakof, L. 1911 A, 173, text-fig. 55.
Permian (Wichita?, Clear Fork?); Texas.

PLATYSOMATIDÆ.

Unless otherwise indicated the authors, as cited, use the name *Platysomidæ*.

Hay, O. P. 1902 A, 369.
Abel, O. 1912 F, 488 ("platysomiden").
1919 A, 190, figs. 147, 148.
1922 F, 77.
Allis, E. P. 1905 A, 490.
1919 A, 377.
Arlt, T. 1907 D, 674.
Bridge, T. W. 1878 A, 722.
1904 A, 487.
Bonn, H. G. 1849 A, 830, seq. ("lepidoiden").
Carus, V. 1875 A, 592.
Cope, E. D. 1891 N, 20.
Cunningham, J. T. 1897 A, 498.
Dean, Gudger, Henn 1923 A, 622.
Eastman, C. R. 1898 E, 183 ("platysomiden").
1907 B, 23 (*Platysomatidæ*).
1908 A, 255.
1917 A, 276 (*Platysomatidæ*).
Fitzinger, L. J. 1873 A, 52 (*Platysomi*).
Gill, T. 1881 A, 371.
Goodrich, E. S. 1908 A, 768.
1909 A, 312.
Gregory, W. K. 1907 D, 448.

Hoernes, R. 1886 A, 554.
Jordan, D. S. 1905 A, ii, 14, 586.
1907 B, 250, 760.
1923 A, 112.
Kiaer, J. 1924 A, 97.
Lütken, C. 1871 A, 289 ("platysomiens").
Pompeckj, J. F. 1913 A, 1141.
Schlosser, M. 1917 A, 134, 147 ("platysomiden").
Seupin, H. 1896 A, 159, 182.
Sewertzoff, A. N. 1923 B.
1926 A, 451 (*Platysomatidæ*).
Steinmann, G. 1907 A, 410.
1927 A, 48 ("platysomiden").
Stensiö, E. A. 1921 A, 250, 271.
1925 A, 119, 209.
Woodward, A. S. 1888 M, 142.
1898 A, 87.
1906 C, 276.
1911 C, 46 ("platysomids").
1921 C, 181.
1924 A, 114.
Zittel and Koken 1911 A, 100.
Zittel and Schlosser 1923 A, 100.
Zittel and Woodward 1902 A, 78.

Chirodus M'Coy. Type *C. pes-ranæ* M'Coy.

Hay, O. P. 1902 A, 369.
Abel, O. 1908 E, 415 (*Cheirodus*).
1912 F, 448, fig. 339 (*Cheirodus*).
Barkas, W. J. 1874 D, 545 (*Cheirodus*).
Böhlen, H. 1887 A, 78 (*Cheirodus*).
Bridge, T. W. 1904 A, 488, fig. 286 (*Cheirodus*).
Eastman, C. R. 1917 A, 276 (*Cheirodus*).
Etheridge, R. 1906 A, 130 (*Cheirodus*).
Jordan, D. S. 1919 B, 239 (*Cheirodus*).
1923 A, 112 (*Cheirodus*).
Stensiö, E. A. 1925 A, 211, 212 (*Cheirodus*).
Woodward, A. S. 1924 A, 114, fig. 6 (*Cheirodus*).
Zittel and Koken 1911 A, 101, fig. 175.
Zittel and Schlosser 1923 A, 100, fig. 165 (*Cheirodus*).

Chirodus acutus Newberry.

Hay, O. P. 1902 A, 369.
Pennsylvanian; Ohio.

Chirodus orbicularis (Newb. and Worth.).

Hay, O. P. 1902 A, 369 (*Platysomus*).
Eastman, C. R. 1902 B, 97 (*Platysomus*).
1902 G, 541 (*Platysomus*).
1903 B, 193, 194 (*Cheirodus*).
1917 A, 276, pl. ix, fig. 2 (*Cheirodus*).
Pennsylvanian (Mazon Creek); Illinois.

Platysomus Agassiz. Type *P. gibbosus* (Agassiz).

Hay, O. P. 1902 A, 369.
Agassiz, A. 1877 A, 124.
Agassiz, L. 1835 B, 345.

Agassiz, L. 1835 H, 208.
1844 C, 267.
Allis, E. P. 1919 A, 377.

- Barkas, W. J. 1874 D, 552.
 Bridge, T. W. 1904 A, 488.
 Bronn, H. G. 1848 B, 994.
 1849 A, 658.
 Deecke, W. 1913 A, 80.
 Eastman, C. R. 1917 A, 276.
 Hussakof, L. 1911 A, 173.
 Jordan, D. S. 1919 B, 181 (Type *Stromateus gibbosus* Blv.).
 Lambe, L. M. 1914 E, 17.
 Murchison, R. I. 1854 A, 312, fig. 57.
 Raymond, P. E. 1925 B, 553.
 Scupin, H. 1896 A, 159, pl. ix, fig. 5.
 Sewertzoff, A. N. 1926 E, 565.
 Steinmann, G. 1927 A, 58, 68, text-fig. 16.
 Stensiö, E. A. 1921 A, 251.
 Traquair, R. H. 1900 C, 507.
 Wagner, J. A. 1860 A, 81.
 Woodward, A. S. 1898 B, 87, fig. 64.
 1906 C, 277, fig. 10.
 1924 A, 114.
 Woodward, H. 1904 B, 141.
 Zittel and Koken 1911 A, 101.
 Zittel and Schlosser 1923 A, 101, fig. 165.
 Zittel and Woodward 1902 A, 79.

Platysomus albertensis Lambe.

- Lambe, L. M. 1916 A, 195 (No description).
 Permian; Alberta.

Platysomus canadensis Lambe.

- Lambe, L. M. 1914 E, 17, pl. i; text-fig.
 1915 B, 121.
 1916 B, 36.
 Raymond, P. E. 1925 B, 553.
 Stensiö, E. A. 1921 A, 251, 264.
 Triassic? (Upper Banff); Alberta.

Platysomus circularis Newb. and Worth.

- Hay, O. P. 1902 A, 369.
 Eastman, C. R. 1902 G, 541.
 1902 D, 97.
 1903 B, 190, 194.
 1917 A, 276.
 Hussakof, L. 1908 A, 87.
 Pennsylvanian (Mazon Creek); Illinois.

Platysomus lacovianus Cope.

- Hay, O. P. 1902 A, 369.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 1917 A, 276.
 Hussakof, L. 1908 A, 87.
 Merrill, G. P. 1907 A, 16.
 Pennsylvanian (Mazon Creek); Illinois.

Platysomus palmaris Cope.

- Hay, O. P. 1902 A, 369.
 Beede, J. W. 1907 A, 120.
 Case, E. C. 1915 A, 96.
 Eastman, C. R. 1917 A, 276.
 Hussakof, L. 1908 A, 88.
 1911 A, 173, pl. xxx, fig. 7; text-fig. 56.
 Pennsylvanian (Upper); Oklahoma, Illinois?:
 Permian (Wichita, Clear Fork); Texas
 (Enid); Oklahoma.

Platysomus sp. indet.

- Phillips, W. B. 1912 A, 18, fig. 4 (This genus?).
 Permian (Wichita); Texas.
 Wegeman, C. H. 1915 A, 25. Permian (Wichita);
 Oklahoma.

TURSEODUS Leidy. Type *T. acutus* Leidy.

- Hay, O. P. 1902 A, 369.
 Stensiö, E. A. 1921 A, 149.

Turseodus acutus Leidy.

- Hay, O. P. 1902 A, 369.
 Hawkins, A. C. 1914 A, 153.
 Lyman, B. S. 1894 A, 212.
 Triassic (Newark); Pennsylvania.

DICTYOPYGIDÆ Hay.

- Unless otherwise indicated the authors, as quoted, use the family name *Catopteridæ*.
 Hay, O. P. 1902 A, 370 (Dictyopygidæ).
 Bridge, T. W. 1904 A, 488.
 Dean, Gudger, Henn 1923 A, 623.
 Deecke, W. 1926 A, 195 ("eatopteriden").
 Eastman, C. R. 1905 B, 95.
 1911 A, 18, 28, 46.
 1914 A, 139.
 1917 A, 279.
 Goodrich, E. S. 1909 A, 313.
 Gregory, W. K. 1907 D, 448.
 Jordan, D. S. 1905 A, ii, 14, 16 (Dictyopygidæ).
 1907 B, 252, 760 (Dictyopygidæ).

- Jordan, D. S. 1923 A, 112.
 Pompeckj, J. F. 1913 A, 1140.
 Regan, C. T. 1904 A, 332.
 Schlosser, M. 1917 A, 135 ("eatopteriden").
 Sewertzoff, A. N. 1923 B.
 1926 A, 451.
 Stensiö, E. A. 1921 A, 253, 271.
 1925 A, 119, 210, 224.
 Swinnerton, H. H. 1925 A, 87.
 Traquair, R. H. 1900 C, 507.
 Watson, D. M. S. 1925 A, 866 ("eatopterids").
 Zittel and Koken 1911 A, 102.
 Zittel and Schlosser 1923 A, 101.
 Zittel and Woodward 1902 A, 79.

REDFIELDUS Hay. Type *Catoperus gracilis* Redfield.

- Unless otherwise indicated the authors, as quoted, employ the name *Catoperus*.
 Hay, O. P. 1902 A, 370 (Redfieldius).
 Abel, O. 1919 A, 189.

- Ardt, T. 1923 A, 493.
 Bronn, H. G. 1849 A, 658.
 Deecke, W. 1913 A, 74.
 1926 A, 194.

- Eastman, C. R. 1905 B, 68, 95.
 1911 A, 47, fig. 7.
 1914 A, 144.
 1917 A, 279.

Eaton, G. F. 1903 A, 267.

Emerson, B. K. 1898 A, 400.

Heilprin, A. 1887 A, 302.

Jordan, D. S. 1905 A, ii, 16 (Redfieldius).

1907 B, 252 (Redfieldius).

1920 C, 486 (Redfieldius).

Rice and Gregory 1906 A, 172.

Rogers, H. D. 1844 A, 251.

Stensiö, E. A. 1921 A, 253, 267.

Swinerton, H. H. 1925 A, 96.

Traquair, R. H. 1900 C, 507.

Woodward, A. S. 1898 B, 87.

Zittel and Koken 1911 A, 102.

Zittel and Schlosser 1923 A, 102.

Zittel and Woodward 1902 A, 79.

Redfieldius anguilliformis (W. C. Redfield).

Hay, O. P. 1902 A, 370.

Lyman, B. S. 1894 A, 209 (Catopterus).

Triassic (Newark); Connecticut, New Jersey

Redfieldius gracilis (J. H. Redfield).

Hay, O. P. 1902 A, 370.

Bayley, Kummel, and Salisbury 1914 A, 13 (Catopterus).

Cross, W. 1899 A, 3 (Catopterus. This species?).

1899 B, 3 (Catopterus. This species?).

Eastman, C. R. 1905 B, 96, pl. xiii (Catopterus).

1911 A, 28, 48, pls. ix-xi (Catopterus).

1914 A, 142, pls. xxx, xxxi (Catopterus).

1917 A, 280, pl. xii, figs. 1, 2; pl. xiii, figs. 1, 2 (Catopterus).

Hawkins, A. C. 1914 A, 153 (Catopterus).

Hobbs, W. H. 1901 A, 55 (Catopterus).

Huene, F. 1922 H, 150 (Catopterus).

1926 E, 2 (Catopterus. This species?).

Hussakof, L. 1908 A, 63 (Catopterus).

Hussakof and Bryant 1919 A, 192 (Catopterus).

DICTYOPYGE Egerton. Type *D. macrura* (Redfield).

Hay, O. P. 1902 A, 370.

Arlt, T. 1923 A, 493.

Barkas, W. J. 1874 D, 550.

Deecke, W. 1913 A, 74.

1926 A, 186.

Eastman, C. R. 1905 B, 99.

1911 A, 55.

1917 A, 278.

Hussakof and Bryant 1919 A, 192.

Stensiö, E. A. 1921 A, 267.

Swinerton, H. H. 1925 A, 94.

Traquair, R. H. 1900 C, 507.

Zittel and Koken 1911 A, 102.

Zittel and Schlosser 1923 A, 103.

Lull, R. S. 1917 D, 109 (Catopterus).

Lyman, B. S. 1894 A, 207, 208, 209, 212, 214 (Catopterus).

Moodie, R. L. 1918 B, 390 (Catopterus).

1923 B, 329 (Catopterus).

Smith, J. H. 1900 A, 498 (Catopterus).

Triassic (Newark); Connecticut, New Jersey: (Dolores); Colorado?

Redfieldius minor (Newb.).

Hay, O. P. 1902 A, 370.

Lyman, B. S. 1894 A, 209 (Catopterus).

Triassic (Newark); Connecticut.

Redfieldius ornatus (Newb.).

Hay, O. P. 1902 A, 370.

Lyman, B. S. 1894 A, 209 (Catopterus).

Triassic (Newark); Connecticut.

Redfieldius parvulus (W. C. Redfield).

Hay, O. P. 1902 A, 370.

Lyman, B. S. 1894 A, 214 (Catopterus).

Triassic (Newark); Connecticut.

Redfieldius redfieldi (Egerton).

Hay, O. P. 1902 A, 370.

Bayley, Kummel and Salisbury 1914 A, 13 (Catopterus).

Eastman, C. R. 1905 B, 98 (Catopterus).

1911 A, 28, 51, figs. 5, 6 (Catopterus).

1914 A, 142 (Catopterus).

Hussakof, L. 1908 A, 64 (Catopterus).

Hussakof and Bryant 1919 A, 192 (Catopterus).

Lull, R. S. 1917 D, 109 (Catopterus).

Lyman, B. S. 1894 A, 209 (Catopterus).

Philippi and Frech 1903 A, 12, pl. vii (Catopterus).

Rice and Gregory 1906 A, pl. xvii (Catopterus).

Triassic (Newark); Connecticut, New Jersey.

Redfieldius sp. indet.

Newberry, J. S. 1888 A, 61 (Catopterus). Triassic (Newark); New Jersey.

Hussakof, L. 1908 A, 65 (Catopterus). Triassic (Newark); New Jersey.

Dictyopyge macrura (W. C. Redfield).

Hay, O. P. 1902 A, 370.

Eastman, C. R. 1905 B, 99.

1911 A, 28, 55.

Goodrich, E. S. 1909 A, 314, fig. 292.

Hussakof and Bryant 1919 A, 192, pls. xxiv, lxxvii.

Lull, R. S. 1917 D, 109.

Lyman, B. S. 1894 A, 208.

Redfield, J. H. 1888 A, 64 (Catopterus).

Rogers, W. B. 1843 A, 315 (Catopterus).

1884 A, 315 (Catopterus).

Shaler and Woodworth 1899 A, 431.

Triassic (Newark); Virginia.

Suborder ACIPENSERIFORMES, new name.

Goodrich, E. S. 1909 A, 315 (Acipenseroidei). |

DIPHYDONTIDÆ Jordan.

Jordan, D. S. 1923 A, 113. |

DIPHYODUS Lambe. Type *D. longirostris* Lambe.

Lambe, L. M. 1902 A, 30.

Cockerell, T. D. A. 1919 A, 172.

Hay, O. P. 1910 B, 296.

The systematic position of this genus is extremely doubtful.

Diphyodus longirostris Lambe.

Lambe, L. M. 1902 A, 30, pl. xv, figs. 18, 19.

Bowen, C. F. 1915 A, 118, 148-150.

Brown, B. 1914 E, 378.

Cockerell, T. D. A. 1908 C, 162.

1919 A, 172.

Hatcher, J. B. 1905 B, 69.

Lambe, L. M. 1904 C, 22, 36, 45 (Diphiodus).
1907 B, 179.

Matthew, W. D. 1916 A, 485.

Osborn, H. F. 1902 I, 11, 16.

Peale, A. C. 1912 A, 754.

Stensiö, E. A. 1925 A, 9.

Upper Cretaceous (Belly River); Alberta:
(Judith River); Montana: (Lance); Wyoming.

Diphyodus sp. indet.

Bowen, C. F. 1915 A, 118.

Brown, B. 1907 A, 842.

Cretaceous (Hell Creek); Montana

BELONORHYNCHIDÆ Woodward.

Woodward, A. S. 1888 K, 356.

Abel, O. 1919 A, 194.

Jordan, D. S. 1923 A, 113.

Nicholson and Lydekker 1889 A, 988.

Raymond, P. E. 1925 B, 551.

Steinmann, G. 1927 A, 75.

Woodward, A. S. 1895 A, 12.

1898 B, 88.

Zittel and Koken 1911 A, 97, fig. 166.

Zittel and Schlosser 1923 A, 95.

BELONORHYNCHUS Bronn. Type *B. striolatus* Bronn.

Bronn, H. G. 1858, Neues Jahrb. Min., etc., 12.

Abel, O. 1919 A, 195, fig. 151.

Nicholson and Lydekker 1889 A, 988.

Woodward, A. S. 1888 K, 354.

1895 A, 9.

1898 B, 88, fig. 65.

Zittel, K. A. 1890 A, 265, fig. 270.

Zittel and Koken 1911 A, 97, fig. 166.

Zittel, Eastman, etc. 1902 A, 74, fig. 133.

Belonorhynchus dayi Raymond.

Raymond, P. E. 1925 B, 551, fig. 1.

Triassic (Upper Banff); Alberta.

ACIPENSEROIDÆ, new form.

Gregory, W. K. 1907 D, 448, 462 (Acipenser-
roidei).

Sewertzoff, A. N. 1926 A, 523, 528 (Chondro-
steoidei).

Traquair, R. H. 1877 B, 8 (Acipenseroidei).

ACIPENSERIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 98.

Hay, O. P. 1902 A, 371.

Abel, O. 1912 F, 518.

1919 A, 197.

Agassiz, L. 1835 B, 331 (Sturiones).

Arlt, T. 1907 D, 635.

1912 A, 716, 762.

1923 A, 492 ("acipenseriden").

Ber, G. R. 1925 A, 671 ("sturgeons").

Berg, L. S. 1904 A, 664 ("acipenseriden").

Bonaparte, C. L. 1833 B, 1202.

1838 B, 131.

Braus, H. 1901 B, 201, 236 ("acipenseriden").

Bridge, T. W. 1896 A, 534.

1904 A, 489, 492, 729.

Carter, J. T. 1905 A, 129.

Carus, V. 1875 A, 595 (Acipenserini).

Cockerell, T. D. A. 1919 A, 171.

Collinge, W. E. 1894 A, 528.

1895 D, 82.

Cope, E. D. 1891 N, 21.

Cunningham, J. T. 1912 A, 246.

Cuvier, G. 1805 A ("esturgeons").

Davidoff, M. 1879 A, 489 ("acipenserinen").

Dean, Gudger, Henn 1923 A, 398, 623.

Dombrowsky, B. A. 1918 A, 203, 204.

Dormitzer, M. 1852 A, 63 ("störe").

Duméril, A. 1870 A, 86, pls. xv-xix.

Eastman, C. R. 1908 A, 256 (Acipensideridæ).

Ebner, V. 1896 A, 138 ("acipenseriden").

Filatoff, D. 1907 A, 309.

Fitzinger, L. J. 1873 A, 52 (Acipenseres).

Fürbringer, M. 1902 A, 186 ("acipenseriden").

Gegenbaur, C. 1879 A, 521 ("störe").

Gill, T. 1875 B, 252.

Goetsch, W. 1920 A, 514 ("acipenseriden").

Goodrich, E. S. 1909 A, 318.

Gregory, W. K. 1907 D, 448.

Haeckel, E. 1868 A, 445 (Acipenserides).

Hase, A. 1907 A, 658 ("sturionen").

Heckel, J. 1850 A, 366 ("sturionen").

1851 A, 219 (Acipenserini).

Hennig, E. 1906 A, 173.

Hoernes, R. 1886 A, 549.

Jaekel, O. 1906 C, 157 ("störe").

1906 D, 180 (Acipenseroidei).

1919 A, 104 ("acipenseriden").

1926 D, 70 ("störe").

Jordan, D. S. 1905 A, ii, 18, 555.

1907 B, 254, 761.

1923 A, 113.

Jordan and Gilbert 1882 A, 84.

Kiaer, J. 1924 A, 97, 108 (Acipenseroidei).

Kindred, J. E. 1919 A, 36.

Kingsley, J. S. 1885 A, 92.

Köstlin, O. 1844 A ("störe").

Kurz, — 1925 A, 37 ("acipenseriden").

Leunis and Ludwig 1883 A, 771.

- Luther, A. 1913 A, 6 ("acipenseriden").
 Lütken, C. 1871 A, 293 ("esturgeons").
 Meek, A. 1916 A, 48.
 Meissner, W. 1907 A, 465.
 1907 B, 5.
 Meunier, S. 1903 A, 774 ("esturgeons").
 Owen, R. 1845 B, 68 (Sturionidæ).
 1848 B, 86 ("sturgeons").
 1866 A, 12, 41, 246, 478 (Sturionidæ).
 Parker, W. K. 1881 C, 71.
 1888 C, 399 ("sturgeons").
 1890 A, 62.
 Pompeckj, J. F. 1913 A, 1139 (Accipenseridæ).
 1926 A, 71.
 Rabl, C. 1901 A, 475, 479 ("störe").
 Rauther, M. 1913 A, 1099.
 Richardson, J. 1836 A, 278 (Sturionidæ).
 Sagemehl, M. 1883 A ("acipenseriden").
 Sewertzoff, A. N. 1923 A, 400 ("aceipenseriden").
 1923 B.
 1924 A, 578 ("sturgeons").
- Sewertzoff, A. N. 1925 A, 274 ("acipenseriden").
 1926 A, 514, 523.
 1926 B, 548.
 1926 C, 42 ("acipenseriden").
 1926 E, 556.
- Stannius, H. 1854 A (Acipenserini).
 Steinmann, G. 1927 A, 80 ("aceipenseriden").
 Stensiö, E. A. 1925 A, 14, 176, 216, 224.
 1925 B, 162.
 Stephan, P. 1900 A, 291, 319 ("acipenseridés").
 Stromer, E. 1925 B, 357, 364.
 Trouessart, E. L. 1906 A, 212.
 Wallace, A. R. 1876 A, II, 459 (Accipenseridæ).
 Watson, D. M. S. 1925 A, 815, 824, 863, 864.
 Whitehouse, R. H. 1910 B, 593.
 Woodward, A. S. 1911 C, 46 ("sturgeons").
 1924 A, 113.
 Zittel and Koken 1911 A, 95 (Aecipenseroidei).
 Zittel and Schlosser 1923 A, 95.
 Zittel and Woodward 1902 A, 74.
 Zograf, N. 1887 A, 70.

ACIPENSER Linn. Type *A. sturio* Linn.

- Hay, O. P. 1902 A, 371.
 Abel, O. 1912 F, 658.
 1919 A, 23, figs. 2, 14.
 Adams, L. A. 1919 A, 68, pl. i.
 Ahlborn, F. 1896 B, 1 ("stör").
 Alessandrini, A. 1849 A, 377, pl. xxiv, fig. 4.
 Allis, E. P. 1897 A, 19.
 1898 B, 93.
 1903 A, 662.
 1905 A, 478.
 1909 A, 213.
 1915 A.
 1922 C, 13.
 1925 A, 77.
 1926 A, 166.
 Bardeleben, K. 1901 A, 66 ("störe").
 1903 A, 22 ("störe").
 Baudelot, E. 1873 A, 94 (Accipenser).
 Beer, G. R. 1924 C, 337.
 1925 A, 671, figs. 1-20.
 1926 A, 277, figs. 14-19, 110, 118, 119.
 Berg, L. S. 1904 A, 666.
 Bliss, R. 1875 A, 386 ("sturgeon").
 Brandt, J. F. 1865 A, 7.
 Braus, H. 1901 B, 201, pls. xxv, xxvi, xxvii, xxix.
 1906 A, fig. 197.
 1919 A, 2, fig. 13.
 Bridge, T. W. 1878 A, 689, 717, text-fig.
 1896 A, 534.
 1904 A, 492, 729.
 Bronn, H. G. 1848 A, 7.
 1849 A, 653.
 Collinge, W. E. 1894 A, 521.
 1895 D, 80 (Accipenser).
 Connell, A. 1835 A, 301.
 Cunningham, J. T. 1897 A, 493 ("sturgeon").
 Cuvier, G. 1815 A, 125 ("esturgeon").
 Davidoff, M. 1879 A, 487, fig. 7.
 Dean, B. 1895 C, 734.
 1896 D, 338.
 Dean, Gudger, Henn 1923 A, 667.
 Dendy, A. 1907 A, 295.
 Derjugin, K. M. 1909 A.
- Derjugin, K. M. 1910 A, 629.
 Dollo, L. 1889 E, 152 ("esturgeon").
 1904 C, 235.
 Dombrowsky, B. A. 1918 A, 201, 204, figs. 6-8.
 Duméril, A. 1856 A, 156 ("esturgeon").
 1870 A, 20, 84.
 Edgeworth, F. H. 1925 A, 240.
 1926 A, 178, figs. 4-12.
 Eichwald, E. 1832 A, 886 ("stör").
 Elliott, A. I. M. 1907 A, 648 (Accipenser).
 Fitzinger and Heckel 1836 A, 261, pls. xxv-xxx.
 Foriep, A. 1905 A, 156 ("esturgeon").
 Gaupp, E. 1897 A, 537.
 1898 B, 845, 850.
 1905 D, 900.
 1906 B.
 1911 A, 419.
 Gegenbaur, C. 1866 A, 125 ("störe").
 1867 A, 60 ("störe").
 1867 B, 420, pl. ix, fig. 20.
 1879 A, 523.
 Giebel, C. G. 1855 A, 113 (Accipenser).
 Goetsch, W. 1920 A, 514.
 Goette, A. 1901 A, 552.
 Goodrich, E. S. 1901 A, 314, fig. C.
 1904 A, 479, fig. 3.
 1906 A, 347.
 1909 A, 505, figs.
 Gregory, W. K. 1904 A, 57.
 1915 D, 347, fig. 4.
 Hague, F. 1924 A, 274.
 Haller, B. 1906 A, 255.
 Hamburger, R. 1904 A, 75, 82.
 Hase, A. 1913 A, 147, fig. 68.
 Hasse, C. 1893 C, 76, pl. v.
 Heckel, J. 1851 A, 219.
 Heilprin, A. 1887 A, 68, 69 (Accipenser).
 Hoeven, J. 1822 A.
 Huxley, T. H. 1863 F, 425, figs. 35, 36.
 1876 E, 118.
 Inms, A. D. 1904 A, 33.
 Jaekel, O. 1902 C, 610 (Accipenser).
 1906 D, 181, figs. 4, 6.

- Jackel, O. 1913 A, 85 ("störe").
 1921 A, 222, fig. 4.
 1926 A, 161, 171.
 1926 B, 43 ("störe").
 1926 D, 70.
 1928 A, 43 ("störe").
- Jordan, D. S. 1905 A, ii, 18, 555.
 1907 B, 254.
- Jordan and Evermann 1917 A, 11.
- Jordan and Gilbert 1882 A, 85.
- Kesteven, H. L. 1922 A, 314.
 1926 A, 139.
- Kiaer, J. 1924 A, 97, 109, figs. 43, 48.
- Kingsley, J. S. 1925 A, 28, 96, 99, 100, 230, figs. 28, 102, 106, 243.
- Klaatsch, H. 1890 A, 146, 245.
 1893 B, 657 ("störe").
 1893 C, 181 (Accipenser).
- Klein, E. E. 1868 A (Accipenser).
- Köstlin, O. 1844 A ("stör").
- Kupffer, C. 1893 A, 518.
- Kurz, — 1925 A, 36-68, figs. 1-9.
- Lakjer, T. 1927 A, 279, fig. 103.
- Lebedinsky, N. G. 1917 A, 315.
- Leunis and Ludwig 1883 A, 772.
- Luther, A. 1913 A, 15, figs. 4, 6, 7, 10.
 1913 B, 6, figs. 1, 2, 6, 7, 23, 24.
- McMurrich, J. P. 1883 A, 634.
- Meckel, J. F. 1825 A ("störe").
- Meeke, A. 1916 A, 49.
- Meissner, W. 1907 A, 465.
 1907 B, 1, pls. i, ii; text-figs.
- Mivart, St. G. 1879 B, 540 ("sturgeon").
- Molin, R. 1851 A, 357, pl. xv.
- Mollier, S. 1897 A, pls. i-x.
- Nauck, E. T. 1926 B, 73.
- Norman, E. W. 1926 A, 455.
- Owen, R. 1848 B, 101.
 1866 A, 74, 196, figs. 62, 125.
- Parker, W. K. 1873 B, 254 (Accipenser).
 1881 C, 71.
- Parker and Bettany 1877 A, 86 ("sturgeon").
- Pehrson, T. 1922 A, 9.
- Price, P. H. 1927 A, 279, text-fig. 2.
- Priem, F. 1908 B, 132, pl. iii, fig. 1; pl. iv, figs. 1-4.
- Pütter, A. 1923 A, 220.
- Rabl, C. 1901 A, 481.
- Rauther, M. 1913 A, 1068, figs. 19, 21.
- Reynolds, S. H. 1897 A, 531, fig. 18.
- Ridewood, W. G. 1896 A, 389, fig. 18.
 1921 A, 329.
- Ryder, J. 1885 E, 95.
- Salensky, W. 1899 B, 298.
- Schauinsland, H. 1906 A, 430.
- Schlosser, M. 1917 A, 142.
- Schmalhausen, J. J. 1912 A, 525, 558, pl. xv.
 1913 A, 16.
 1913 B, 742, 747.
 1913 C, pls. i, v.
 1917 A, 108.
 1923 A, 538, fig. 4.
- Sewertzoff, A. 1896 A, 219, 274, pls. iv, v.
 1918 A, 206.
 1923 B, figs. 1, 3, 4.
 1926 A, 451-540, figs. 1-37.
 1926 B, 547, figs. 1-23.
- Sewertzoff, A. 1926 C, 42.
 1926 E, 523, figs. 1-38.
- Shann, E. W. 1919 A, 556.
- Shepherd, C. E. 1910 B, 298.
- Stadtmüller, F. 1926 A, 160, fig. 6.
- Stannius, H. 1854 A.
- Stanton and Hatcher 1905 A, 50.
- Starks, E. C. 1916 A, 12.
- Stensiö, E. A. 1921 A, 273.
 1925 A, *passim*, text-fig. 15.
 1925 B, 106.
- Stephan, P. 1900 A, 339.
- Stromer, E. 1925 B, 358.
- Sushkin, P. P. 1927 A, 268, fig. 1.
- Taylor, H. F. 1916 A, 298.
- Traquair, R. H. 1912 A, 168.
- Wagner, R. 1843 A.
- Wallace, A. R. 1876 A, ii, 459 (Accipenser).
- Watson, D. M. S. 1923 A, 471.
 1925 A, 831, 848, 850, 864.
- Weber, E. H. 1821 A, 1065.
- Whitehouse, R. H. 1910 B, 593, pl. xlvii, fig. 2.
 1918 A, 139.
- Wiedersheim, R. 1880 C, 128.
- Wiman, C. 1918 A, 93, fig. 7.
- Woodward, A. S. 1890 G, 104, figs. 4, 8.
 1922 C, 87, fig. 95.
- Zittel and Koken 1911 A, 95 (Accipenser).
- Zittel and Schlosser 1923 A, 95, figs. 18-21.
- Zograf, N. 1887 A, 70.
 1896 B, 320.

Accipenser albertensis Lambe.

- Lambe, L. M. 1902 A, 29, pl. xxi, fig. 9.
- Bowen, C. F. 1915 A, 118, 148, 149, 150.
- Brown, B. 1914 E, 378.
- Cockerell, T. D. A. 1908 C, 163.
 1919 A, 172.
- Hatcher, J. B. 1905 B, 69.
- Lambe, L. M. 1904 C, 21, 36, 43.
 1917 E, 293 (This species?).
- Matthew, W. D. 1916 A, 485 (Accipenser).
- Osborn, H. F. 1902 I, 11, 16.
- Peale, A. C. 1912 A, 754 (Accipenser).
- Stromer, E. 1925 B, 357.
- Williston, S. W. 1902 K, 953.
 Upper Cretaceous (Belly River); Alberta:
 (Judith R.); Montana: (Lance); Wyoming.

Accipenser medirostris Ayres.

- Ayres, W. O. 1854, Proc. Calif. Acad. Sci., 1, 15.
- Hay, O. P. 1927 D, 216.
- Jordan, D. S. 1907 A, 128 (This species?).
- Jordan and Evermann 1896 A, 104.
- Miller, L. H. 1912 A, 71 (This species?).
- Sinclair, W. J. 1904 A, 18 (This species?).
 Recent; Pacific coast north of San Francisco: Pleistocene?; California?

Accipenser ornatus Leidy.

- Hay, O. P. 1902 A, 371.
 Miocene; Virginia.

Accipenser sturio Linn.

- Linnæus, C. 1758 A, 237.
- Hay, O. P. 1923 A, 311.

Jordan and Evermann 1896 A, 105.

Leidy, J. 1889 H, 19.

Recent; Atlantic coasts of Europe and
America: Pleistocene? Pennsylvania?

Acipenser sp. indet.

Sternberg, C. M. 1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

Suborder POLYODONTIFORMES, new name.

Gill, T. 1872 C, 22 (Selachostomi).

1909 B, 838 (Selachostomi).

Jordan, D. S. 1905 A, ii, 20, 591 (Selachostomi).

1907 B, 256, 761 (Selachostomi).

1923 A, 113 (Selachostomi).

POLYODONTIDÆ Bonaparte.

Bonaparte, C. L. 1838 B, 131.

Hay, O. P. 1902 A, 371.

Abel, O. 1912 F, 476 (Polyodon).

1919 A, 196.

Adams, L. A. 1919 A, 66, pl. i (Polyodon).

Allis, E. P. 1903 A, 659 (Polyodon).

1915 A, (Polyodon).

1918 B, 25, 260 (Polyodon).

1919 A, 370 (Polyodon).

Arlt, T. 1907 D, 682 (Spatularidæ).

1912 A, 648, 650, 658, 662, 670, 678, 690, 716,
762.

1923 A, 492 ("polyodontiden").

Bonaparte, C. L. 1840 A, 47.

Bridge, T. W. 1878 A, 683, pls. lv-lvii (Polyodon).

1896 A, 536.

1897 B, 722, fig. 1 (Polyodon).

1904 A, 489, 491, 751.

Collinge, W. E. 1894 A, 528.

1895 C (Selachoidæ).

1895 D, 82.

Cope, E. D. 1891 N, 21.

Cunningham, J. T. 1912 A, 246.

Davidoff, M. 1879 A (Polyodon).

Dean, Gudger, Henn 1923 A, 623.

Duméril, A. H. A. 1870 A, 271 ("polyodontidés").

Eastman, C. R. 1908 A, 256.

Egerton, P. G. 1858 B, 233 (Chondrosteus).

Forbes, W. A. 1879 A, 364 (Polyodon).

Fürbringer, M. 1902 A, 186 ("polyodontiden").

Gaupp, E. 1905 D, 900 (Polyodon).

Gegenbaur, C. 1879 A, 522 (Polyodon).

Gill, T. 1901 A, 307 (Polyodon).

1905 A, 659.

Goodrich, E. S. 1909 A, 317.

Günther, A. C. 1881 A, 687.

Huxley, T. H. 1863 F, 425, fig. 34 (Spatularia).

1876 E, 116 (Polyodon).

Imms, A. D. 1904 A, 22 (Polyodon).

Jordan, D. S. 1905 A, ii, 20, 587.

1907 B, 256, 761.

Jordan, D. S. 1923 A, 113.

Jordan and Gilbert 1882 A, 82.

Kesteven, H. L. 1926 A, 139 (Polyodon).

Kingsley, J. S. 1925 A, 32, fig. 35 (Polyodon).

Köstlin, O. 1844 A ("spatulariden").

Lakjer, T. 1927 A, 289, fig. 102 (Polyodon).

Leunis and Ludwig 1883 A, 773.

Luther, A. 1913 A, 8, figs. 2, 3, 9, 10 (Polyodon).

1913 B, 9, figs. 3, 5, 14, 22 (Polyodon).

Meckel, J. F. 1825 A (Polyodon).

Meek, A. 1916 A, 51.

Meissner, W. 1907 B, 32 (Polyodon).

Mivart, St. G. 1878 B, 331 (Polyodon).

Owen, R. 1845 B, 68 (Spatulariæ).

1848 B, 86 (Polyodon).

1866 A, 39, 612 (Planirostra).

1868 A, 901 (Planirostra).

Rabl, C. 1901 A, 479 ("polyodontiden").

Rauther, M. 1913 A, 1099.

Reynolds, S. H. 1897 A, 32, 66.

Scharff, R. F. 1911 A, 88 (Polyodon).

Sewertzoff, A. N. 1923 B.

1926 A, 513, 524.

1926 E, 560 (Spatularidæ).

Stannius, H. 1854 A (Spatulariæ).

Stensiö, E. A. 1925 A, 120, 216, 224 ("polyodontids").

Stromer, E. 1925 B, 357, 358.

Traquair, R. H. 1912 A, 168.

Wagner, G. 1904 A, 555.

Wagner, R. 1843 A (Polyodon).

Wallace, A. R. 1876 A, ii, 459.

Watson, D. M. S. 1925 A, 829, 850, 864, figs.
7, 8 (Chondrosteus).

Whitehouse, R. H. 1910 B, 594, pl. xlvii, fig. 3.

Wiedersheim, R. 1881 B, 327 (Polyodon).

Young, J. 1866 D, 234 (Chondrosteus).

Zittel and Koken 1911 A, 96.

Zittel and Schlosser 1923 A, 95.

Zittel and Woodward 1902 A, 74.

Zograf, N. 1887 A, 70 (Polyodon).

CROSSOPHOLIS Cope. Type *C. magnicaudatus* Cope.

Hay, O. P. 1902 A, 372.

Arlt, T. 1923 A, 493.

Bridge, T. W. 1904 A, 492.

Jordan, D. S. 1920 C, 434 (Crossophilus).

Traquair, R. H. 1900 C, 507.

1912 A, 168.

Zittel and Koken 1911 A, 96.

Zittel and Schlosser 1923 A, 95.

Zittel and Woodward 1902 A, 74.

Crossophilis magnicaudatus Cope.

Hay, O. P. 1902 A, 372.

Cockerell, T. D. A. 1908 C, 162.

Hussakof, L. 1908 A, 69.

Jordan, D. S. 1905 A, ii, 21.

1907 B, 257.

Eocene (Green River); Wyoming.

Order PYCNODONTÆ Agassiz.

- Unless otherwise indicated the authors, as cited, use the term *Pycnodonti* for this order.
- Agassiz, L. 1832 A, 141 (Pycnodontæ).
 Hay, O. P. 1902 A, 372.
 Agassiz, L. 1833 A, 478 (Pycnodontæ).
 1844 C, 267 ("pycnodontes").
 1844 D, 142 ("pycnodontes").
 Bionn, H. G. 1849 A, 780, seq. (Pycnodontes).
 Carus, V. 1875 A, 592 (Pycnodontini).
 Deecke, W. 1913 A, 87 ("pycnodonten").
 Dicner, C. 1909 A, 49.
 Egerton, P. G. 1849 A, 329.
 1854 A, 369.
 Fitzinger, L. J. 1873 A, 50 (Pycnodontes).
 Fowler, H. W. 1911 A, 145.
 Frost, G. A. 1913 A, 219 (Dapedius).
 Giebel, C. G. 1855 A, 111, 112, 113 (Pycnodontes).
 Gregory, W. K. 1907 D, 448, 465.
 Jordan, D. S. 1923 A, 114.
 Kingsley, J. S. 1885 A, 94 (Pycnodontini).
 Hennig, E. 1906 A, 137 ("pyknodonten").
 Hennig, E. 1907 A, 36 ("pyknodonten").
 Hoernes, R. 1886 A, 552 (Lepidopleuridæ).
 Huxley, T. H. 1861 D, 448 ("pycnodonts").
 1862 A, 1.
 1867 F, 167 (Pycnodonta).
 Jaekel, O. 1911 A, 69, 84.
 Jordan, D. S. 1905 A, ii, 22.
 1907 B, 258, 761.
 Lütken, C. 1868 C (Pycnodontes).
 Pompeckj, J. F. 1913 A, 1139, 1142.
 Priem, F. 1903 B, 15 ("pycnodontes").
 Regan, C. T. 1909 B, 76 (Pycnodontoidei).
 Sauvage, E. 1867 A, 75 ("pycnodontes").
 Steinmann, G. 1927 A, 17, 64 ("pycnodonten").
 Stromer, E. 1905 C, 185 (Euganoidei).
 1925 B, 348, 350, 365 (Pycnodonti).
 Woodward, A. S. 1893 F, 433, 487 ("pycnodonts").
 1917 B, 385 ("pycnodonts").
 Zittel and Koken 1911 A, 102.
 Zittel and Schlosser 1923 A, 102.

PYCNODONTIDÆ Owen.

- Owen, R. 1846 E, 50.
 Hay, O. P. 1902 A, 372.
 Abel, O. 1912 F, 488 ("pycnodontiden").
 1919 A, 205.
 1922 F, 77.
 Agassiz, L. 1835 B, 331 (Pycnodontes).
 1835 H, 225 (Pycnodontæ).
 Arltdt, T. 1907 D, 678.
 1923 A, 495 ("pycnodontiden").
 Bridge, T. W. 1904 A, 498.
 Cunningham, J. T. 1897 A, 498.
 Dean, Gudger, Henn 1923 A, 398, 623.
 Eastman, C. R. 1898 E, 183 ("pycnodonts").
 Egerton, P. G. 1877 A, 54 ("pycnodonts")
 Fowler, H. W. 1911 A, 145.
 Goodrich, E. S. 1908 A, 767.
 1909 A, 337.
 Gregory, W. K. 1907 D, 448.
 1923 A, 238, 240.
 Heckel, J. 1850 B, 143 ("pycnodonten").
 Heilprin, A. 1887 A, 94.
 Hennig, E. 1906 A, 137.
 Hermann, R. 1907 A, 195, fig. 1 ("pycnodonten")
 Hoernes, R. 1886 A, 553.
 Jordan, D. S. 1905 A, ii, 22.
 1907 B, 258, 761.
 Jordan, D. S. 1923 A, 114.
 Leriche, M. 1910 A, 462, 465 ("pycnodontidés").
 Leunis and Ludwig 1883 A, 776.
 Lütken, C. 1871 A, 288 ("pycnodontiens").
 Owen, R. 1866 A, 12, 378.
 Priem, F. 1903 A, 403 ("pycnodontes").
 Regan, C. T. 1923 B, 455, 456.
 Sauvage, H. E. 1902 A, 542 ("pycnodontes").
 Savornin, J. 1915 A, 368.
 Schlosser, M. 1917 A, 135, 136, 138, 140, 142, 148
 ("pycnodontiden").
 Seupin, H. 1896 A, 173, 184.
 Steinmann, G. 1907 A, 411.
 Stromer, E. 1905 C, 185.
 Watson, D. M. S. 1925 A, 866 ("pycnodonts").
 Woodward, A. S. 1893 F, 433.
 1898 B, 101.
 1907 A, 194.
 1912 A, (1909), 162.
 1921 A, 181.
 1921 C, 181.
 1922 C, 91.
 Zittel and Koken 1911 A, 102 (No family name).
 Zittel and Schlosser 1923 A, 102 (No family name).
 Zittel and Woodward 1902 A, 85.

MACROMESODON Blake. Type *Gyrodus macropterus* Agassiz.

- Blake, J. F. 1905 A, 32.
 Unless otherwise indicated the authors, as quoted, apply to this genus the name *Mesodon*.
 This is, however, preoccupied.
 Hay, O. P. 1902 A, 372 (Typodus; preoccupied).
 Arltdt, T. 1923 A, 495.
 Deecke, W. 1913 A, 83.
 Giebel, C. G. 1855 A, 112.
 Goodrich, E. S. 1909 A, 337, 339, fig. 319.
 Gorjanovic-Kramberger, K. 1905 A, 219.
 Heckel, J. J. 1850 A, 361, 365.
 Hennig, E. 1906 A, 172, 199.
 1907 A, 360.
 Jordan, D. S. 1923 A, 114 (Typodus, preoccupied).
 Sauvage, H. E. 1902 A, 545.
 Steinmann, G. 1927 A, 54, text-fig. 14.
 Traquair, R. H. 1911 A, 29.
 Woodward, A. S. 1890 C, 296.
 1910 B, 468.
 Zittel and Koken 1911 A, 103.
 Zittel and Schlosser 1923 A, 103.
 Zittel and Woodward 1902 A, 87.
Macromesodon abrasus (Cragin).
 Hay, O. P. 1902 A, 372 (Typodus).
 Lower Cretaceous (Fredericksburg); Kansas.

Macromesodon diastematicus (Cope).

Hay, O. P. 1902 A, 372 (Typodus).

1917 B, 4 (Typodus).

Montgomery, T. H. 1904 A, 57 (Mesodon).

Lower Cretaceous (Fredericksburg); Texas.

Macromesodon dumblei (Cope).

Hay, O. P. 1902 A, 373 (Typodus).

1917 B, 4 (Typodus).

Montgomery, T. H. 1904 A, 56 (Microdus); 57 (Mesodon dumbleianus).

Lower? Cretaceous; Texas.

Macromesodon valens Hay.

Hay, O. P. 1917 B, 5, pl. i, fig. 2 (Typodus).

Lower Cretaceous; Texas.

PROSCINETES Gistel. Type *Microdon elegans* Agassiz.Gistel, J. 1848, Naturges. Thierr. f. höhere Schulen, x (To replace *Microdon*, preoccupied).Unless otherwise indicated the authors, as cited, use for this genus the preoccupied name *Microdon*.

Agassiz, L. 1883 A, 479.

1835 H, 228.

Arlt, T. 1923 A, 495.

Bronn, H. G. 1848 A, 725.

1849 A, 667.

Coulon, L. 1903 A, 147.

Deecke, W. 1913 A, 83.

Egerton, P. G. 1855 A, 8 L, 1.

Giebel, C. G. 1855 A, 111.

Goodrich, E. S. 1909 A, 337, fig. 317.

Hay, O. P. 1899 E, 788 (Polysephus).

1917 B, 6 (Pycnomicrodon, *laps. mem.*).

Heckel, J. J. 1850 A, 361.

1856 A, 201.

Hennig, E. 1906 A, 172, 199.

Jordan, D. S. 1919, Proc. Acad. Nat. Sci.

Phila., 1918, 336 (Proscinetes).

1919 B, 237 (Proscinetes).

Owen, R. 1845 B, 73, pl. xliii, fig. 1.

Pompeckj, J. F. 1913 A, 1143.

Priem, F. 1911 C, 10, pl. iii.

Steinmann, G. 1927 A, 50.

Vetter, B. 1881 A, 33.

Woodward A. S. 1917 B, 385.

1919 A (1918), 445, fig. 1.

Zittel and Koken 1911 A, 102.

Zittel and Schlosser 1923 A, 102, figs. 172, 173.

Zittel and Woodward 1902 A, 86.

Proscinetes texanus (Gidley).

Gidley, J. W. 1913 C, 445, figs. 1, 2 (Microdon).

Hay, O. P. 1917 B, 6 (Pycnomicrodon).

Lower Cretaceous; Texas.

CÆLODUS Heckel. Type *C. saturnus* Heckel.

Hay, O. P. 1902 A, 373.

Coulon, L. 1903 A, 149.

Egerton, P. G. 1877 A, 49, pl. iii, fig. 1.

Goodrich, E. S. 1909 A, 337, fig. 317.

Hennig, E. 1906 A, 188.

Jordan, D. S. 1919 B, 270.

Leriche, M. 1906 C, 413.

Priem, F. 1903 A, 403.

1908 B, 70, pl. ii, fig. 4.

1909 B, 325.

Sauvage, H. E. 1902 A, 550.

Schlosser, M. 1917 A, 138, 140.

Steinmann, G. 1927 A, 50.

Storms, R. 1891 A, 150.

Woodward, A. S. 1893 F, 488, 491.

1895 G, 208, pl. viii.

1896 E, 70.

1912 A (1909), 165, text-figs. 46, 47.

1917 B, 386.

1919 A (1918), 64, text-fig. 24.

Zittel and Koken 1911 A, 104.

Zittel and Schlosser 1923 A, 105.

Zittel and Woodward 1902 A, 88.

Cœlodus brownii Cope.

Hay, O. P. 1902 A, 373.

Gidley, J. W. 1913 C, 447.

Lower Cretaceous (Comanche); Oklahoma.

Cœlodus decaturensis Gidley.

Gidley, J. W. 1913 C, 447, fig. 4.

Hay, O. P. 1917 B, 7.

Lower Cretaceous; Texas.

Cœlodus fabadens Gidley.

Gidley, J. W. 1913 C, 446, fig. 3.

Hay, O. P. 1917 B, 7.

Lower Cretaceous; Texas.

Cœlodus stantoni Williston.

Hay, O. P. 1902 A, 373.

Gidley, J. W. 1913 C, 447.

Lower Cretaceous (Kiowa shales); Kansas.

PYCNODUS Agassiz. Type *Zeus platessus* Blainv.

Hay, O. P. 1902 A, 373.

Agassiz, L. 1833 A, 479.

1835 H, 229.

Arlt, T. 1923 A, 495.

Bronn, H. G. 1848 B, 1064.

1849 B, 665.

Coulon, L. 1903 A, 147.

Egerton, P. G. 1855 A, 8 L, 1, pl. x.

1877 A, 50.

Fowler, H. W. 1911 A, 146.

Heilprin, A. 1887 A, 302.

Hennig, E. 1906 A, 199.

1912 A, 490.

Hoernes, R. 1886 A, 553.

Jordan and Evermann 1917 A, 144.

Leriche, M. 1906 C, 420.

Mantell, G. A. 1844 A, 640, pl. i, fig. 3; text-fig. 131.

Priem, F. 1903 A, 403.

1908 B, 109, fig. 54.

Ryder, J. 1885 E, 95.

Sauvage, E. 1867 A, 77.

Savornin, J. 1915 A, 370.

Schlosser, M. 1917 A, 140, 142.

Stromer, E. 1905 C, 185.

Woodward, A. S. 1917 B, 387.

Zittel and Koken 1911 A, 105.

Zittel and Schlosser 1923 A, 105.

Zittel and Woodward 1902 A, 88.

Pycnodus carolinensis Emmons.

Hay, O. P. 1902 A, 373.

Cretaceous ("Miocene"); North Carolina.

Pycnodus comminuens Hay.

Hay, O. P. 1917 B, 3, pl. i. fig. 1.

Lower Cretaceous; Texas.

Pycnodus phaseolus Hay.

Hay, O. P. 1902 A, 373.

Fowler, H. W. 1911 A, 146, fig. 90.

Upper Cretaceous; Mississippi: (Navesink?); New Jersey.

Pycnodus planidens Hay.

Hay, O. P. 1917 B, 7.

Lower Cretaceous; Texas.

Pycnodus robustus Leidy.

Hay, O. P. 1902 A, 373.

Fowler, H. W. 1911 A, 147, fig. 91.

Cretaceous; New Jersey.

Pycnodus sp. indet.

Hay, O. P. 1902 A, 373. (Triassic (Chatham); North Carolina.

HADRODUS Leidy. Type *H. priscus* Leidy.

Hay, O. P. 1902 A, 373.

Jordan, D. S. 1923 A, 114.

Hadrodus priscus Leidy.

Hay, O. P. 1902 A, 373.

Cretaceous; Mississippi.

ANOMÆODUS Forir. Type *Pycnodus subclavatus* Agassiz.

Forir, H. 1887, Ann. Soc. Géol. Belgique, xiv, Mém., 25.

Leriche, M. 1906 C, 411.

Priem, F. 1909 B, 325.

1912 B, 266.

Woodward, A. S. 1893 F, 487, pls. xvi, xvii.

1893 G, 488, pls. xvi, xvii.

1895 A, 258.

1895 G, 209, pl. viii.

1912 A (1909), 162, pl. xxxv.

1917 B, 387.

Zittel and Schlosser 1923 A, 105.

Zittel and Woodward 1902 A, 88.

Anomæodus latidens Gidley.

Gidley, J. W. 1913 C, 448, fig. 5.

Upper Cretaceous (Selma or Ripley); Mississippi.

Anomæodus mississippiensis Gidley.

Gidley, J. W. 1913 C, 449, fig. 6.

Upper Cretaceous (Coffee Sand of Eutaw or Selma chalk); Mississippi.

Anomæodus sp. indet.

Gidley, J. W. 1926 F, 192, pl. lxxi, fig. 11 (Anomæodus). Upper Cretaceous (Ripley; Tennessee.

URANOPLOSUS Sauvage. Type *U. cotteui* Sauvage.

Hay, O. P. 1902 A, 373.

Sauvage, H. E. 1902 A, 547.

Uranoplosus arctatus Cope.

Hay, O. P. 1902 A, 373.

Lower Cretaceous (Comanche); Oklahoma.

Uranoplosus flectidens Cope.

Hay, O. P. 1902 A, 373.

Lower Cretaceous (Comanche); Oklahoma.

Order HOLOSTEI Müller.

Müller, J. 1845 A, 119, 137.

Hay, O. P. 1902 A, 374.

Allis, E. P. 1905 A, 404, 495.

1915 A, 621.

1918 A, 242.

1918 B, 263.

1919 A, 374.

1919 B, 73.

1919 C, 256.

1922 A, 152.

1922 B.

1923 A, 52.

1923 B, 155.

1925 A, 75.

1926 A, 168.

Arlt, T. 1923 A, 494 ("holostier").

Boulenger, G. A. 1904 A, 162.

Bridge, T. W. 1878 A, 722 (Teleosteoidei). 1904 A, 495.

Bronn, H. G. 1849 A, 830, seq.

Carus, V. 1875 A, 590 (Lepidosteidei).

Cunningham, J. T. 1912 A, 240, 246, 261, 382.

Dean, Gudger, Henn 1923 A, 684.

Dombrowski, B. A. 1925 A, 70, fig. 3.

Ebner, V. 1896 A, 146.

Egerton, P. G. 1852 C, 6 L, 6.

Gaupp, E. 1898 B, 844, 863 ("knochenganoiden").

Gegenbaur, C. 1866 A, 123.

Goodrich, E. S. 1909 A, 321.

Greene, J. R. 1861 A, 227.

- Gregory, W. K. 1907 D, 448, 464, pl. xxix (Lepidosteoidei).
 1920 A, 220.
 1923 A, 238.
- Hase, A. 1913 A, 147.
- Hasse, C. 1893 C, 76 ("knoehenganoiden").
- Hilzheimer, M. 1913 A, 471 ("knoehenganoiden").
- Hubbs, C. L. 1919 A, 570.
- Jaekel, O. 1911 A, 69, 73.
- Jordan, D. S. 1905 A, ii, 23, 578 (Lepidostei).
 1907 B, 259, 761 (Lepidostei).
 1923 A, 115.
- Kehrer, F. A. 1896 A, 352 ("knoehenganoiden").
- Kingsley, J. S. 1885 A, 92.
- Klaatsch, H. 1893 B, 655 ("knoehenganoiden").
- Leunis and Ludwig 1883 A, 775 (Euganoidei).
- Lönnberg, E. 1901 A.
- Luther, A. 1913 B, 12, 22, 52.
- Matthes, E. 1921 A, 221 ("knoehenganoiden").
- Meek, A. 1916 A, 48, 52.
- Miall, L. C. 1872 A, 34.
- Owen, R. 1845 B, 74 ("sauroids").
- Parker, W. K. 1881 C, 71 ("holostean ganoids").
- Parker and Haswell 1897 A, 203.
- Pehrson, T. 1922 A, 39.
- Pompeckj, J. F. 1913 A, 1139, 1141.
- Rauther, M. 1913 A, 1100.
- Regan, C. T. 1904 A, 346.
 1909 B, 76.
 1912 B, 838.
 1923 B, 457 (Holostei; Neopterygii, in part).
- Reynolds, S. H. 1897 A, 67, 68, 105, 110, 114, 121, 126.
- Ridewood, W. G. 1896 A, 389.
- Romer, A. S. 1924 A, 128, 136.
- Ryder, J. 1886 A, 74.
- Schlesinger, G. 1909 A, (147).
- Schmalhausen, J. J. 1912 A, 529.
 1913 A, 61.
 1913 C.
 1923 B, 544.
- Sewertzoff, A. N. 1918 A, 207.
 1923 B.
 1925 A, 276.
 1926 A, 509, 523 ("holosteans").
 1926 C, 42.
 1926 D, 76, 83.
 1926 F, 274.
- Solger, B. 1880 A, 367.
- Stannius, H. 1854 A.
- Stensiö, E. A. 1925 A, *passim* ("ganoids," in part).
- Suschkina, P. P. 1910 A, 250.
- Swinnerton, H. W. 1905 A, 378 ("holosteans").
- Terra, P. 1911 A, 205.
- Traquair, R. H. 1880 A, 157 (Lepidosteidæ).
 1900 C, 508 (Lepidosteoidei).
- Ussow, S. 1900 A, 231 ("knoehenganoiden").
- Wallace, A. R. 1876 A, ii, 458.
- Watson, D. M. S. 1925 A, 816, 851, 863, 868.
- Whitehouse, R. H. 1910 B, 595.
- Woodward, H. 1878 A, 22 (Lepidosteidæ).

Suborder LEPISOSTEIFORMES, new name.

- Unless otherwise indicated the writers, as cited, use the name *Ginglymodi*.
- Hay, O. P. 1902 A, 374.
- Agassiz, L. 1832 A, 140 (Lepidostei).
- Allis, E. P. 1909 A, 201.
- Arlt, T. 1907 D, 656.
- Beer, G. R. 1926 A, 283 (Lepidosteoidei).
- Cockerell, T. D. A. 1913 B, 121.
- Cope, E. D. 1871 T, 452.
 1891 N, 22.
- Goodrich, E. S. 1904 A, 495 (Aëthiospondyli).
 1909 A, 340 (Lepidosteoidei).
- Gregory, W. K. 1907 D, 448, 466.
- Hoernes, R. 1886 A, 554 (Lepidosteidæ).
- Huxley, T. H. 1861 D, 442 (Lepidosteidæ).
- Jaekel, O. 1911 A, 82 (Lepidostei).
- Jordan, D. S. 1905 A, ii, 24, 29, 572.
 1907 B, 761.
- Jordan, D. S. 1923 A, 115.
- Jordan and Gilbert 1882 A, 89.
- Kiaer, J. 1924 A, 95 (Euganoidea).
- Kingsley, J. S. 1885 A, 96.
- Pompeckj, J. F. 1913 A, 1145 (Lepidosteoidei).
- Regan, C. T. 1909 B, 77.
 1912 B, 841 (Aethiospondyli).
 1923 B, 459.
- Scupin, H. 1896 A, 166, 182.
- Stannius, H. 1854 A (Lepidostei).
- Stromer, E. 1912 A, 31 (Lepidostei).
 1925 B, 354, 365 (Lepidostei).
- Traquair, R. H. 1877 B, 8 (Lepidosteoidei).
 1911 A, 16 (Lepidosteoidei).
- Zittel and Koken 1911 A, 105 (Orthoganoidei).
- Zittel and Schlosser 1923 A, 105 (Orthoganoidei).
- Zittel and Woodward 1902 A, 79 (Lepidostei).

LEPIDOTIDÆ Owen.

- Unless otherwise indicated the authors, as quoted, use the name *Semionotidæ* for this family.
- Hay, O. P. 1902 A, 374 (Lepidotidæ).
- Abel, O. 1906 C, 84.
 1912 F, 488 ("semionotiden").
 1919 A, 197, fig. 170.
 1920 A, 343 ("seminotiden").
 1922 F, 77.
- Arlt, T. 1907 D, 682 (Sphærodontiræ).
- Bridge, T. W. 1904 A, 497.
- Carus, V. 1875 A, 590 (Lepidotini).
- Deecke, W. 1926 A, 185.
- Eastman, C. R. 1905 B, 72.
 1911 A, 18, 28, 57.
 1914 A, 139, 140.
 1917 A, 282.
- Fitzinger, L. J. 1873 A, 51 (Lepidoti).
- Gill, E. L. 1923 A, 38.
- Goodrich, E. S. 1904 A, 495.
 1908 A, 769.
 1909 A, 334.
- Gorjanovič-Kramberger, K. 1905 A, 195.
- Gregory, W. K. 1907 D, 448 (Lepidotidæ, *Semionotidæ*).

- Gregory, W. K. 1923 A, 233, 241 (Semionotidæ, Semionotoidea).
 Hay, O. P. 1901 B, 72.
 Jordan, D. S. 1905 A, ii, 24, 591 (Lepidotidæ, Semionotidæ).
 1907 B, 761 (Lepidotidæ).
 1923 A, 114.
 Pompeckj, J. F. 1913 A, 1142 (Lepidotidæ).
 Priem, F. 1908 B, 14 ("sémionotidés").
 Regan, C. T. 1923 B, 455, 460.
 Schlosser, M. 1917 A, 136, 138 ("stylodontiden," "sphaerodontiden").
 Scupin, H. 1896 A, 160, 182 (Sphærodontidæ).
 Stensiö, E. A. 1921 A, 253.
 1925 A, 224.
 Stolley, E. 1920 A, 77, 79 (Lepidotidæ, Semionotidæ).
 Swinnerton, H. H. 1925 A, 98 (Semionotidæ).
 Traquair, R. H. 1911 A, 16.
 Watson, D. M. S. 1925 A, 866 ("semionotids").
 Woodward, A. S. 1898 B, 95.
 1912 A (1909), 161.
 1922 C, 90 (Semionotidæ).
 Zittel and Schlosser 1923 A, 108 (Lepidotinæ).
 Zittel and Woodward 1902 A, 80 (Stylodontidæ):
 81 (Semionotidæ).

LEPIDOTES Agassiz. Type *L. gigas* Agassiz = *Cyprinus elvensis* Blainville.

- Agassiz, L. 1832 A, 145.
 Unless otherwise indicated the authors here quoted spell the name *Lepidotus*.
 Hay, O. P. 1902 A, 374.
 Abel, O. 1912 F, 490, fig. 371 C.
 1919 A, 201, figs. 156, 157.
 1920 A, 343, fig. 543.
 Agassiz, A. 1877 A, 124.
 Agassiz, L. 1833 A, 474.
 1835 H, 213.
 1844 C, 265.
 Allis, E. P. 1909 A, 201.
 Arltdt, T. 1923 A, 495.
 Bronn, H. G. 1848 A, 632 (Lepidotes, Lepidotus).
 1849 A, 659.
 Coulon, L. 1903 A, 142.
 Cross and Howe 1905 A, 486.
 Dabelow, A. 1926 A, 97, fig. 1.
 Day, H. 1915 A, 432.
 Dean, B. 1914 A, 59.
 Dean, Gudger, Henn 1923 A, 623.
 Deecke, W. 1913 A, 80, 81.
 Drevermann, F. 1912 A, 6, fig.
 Eastman, C. R. 1917 A, 278, 282.
 Egerton, P. G. 1852 C, 6D, 1, pl. iii.
 1854 A, 368.
 Frost, G. A. 1913 A, 220.
 Gaudry, A. 1896 A, 80, fig. 52.
 Gervais, P. 1852 A, explan. pl. lxvii.
 1859 A, 516, pl. lxvii.
 Gill, E. L. 1923 A, 22.
 Goodrich, E. S. 1908 A, 756, 758.
 1909 A, 335, fig. 316.
 Gregory, W. K. 1923 A, 239.
 1924 A, 1.
 Heilprin, A. 1887 A, 302.
 Hennig, E. 1906 A, 186, fig. 12.
 1912 A, 489.
 1914 A, 269, pl. xxiii; text-figs. 3, 4.
 1915 E, 51.
 1920 B, 112.
 Hoernes, R. 1886 A, 556.
 Huxley, T. H. 1862 A, li.
 Jaekel, O. 1905 C, 141, fig. 5.
 1906 A, 23, fig. 14.
 1911 A, 82, figs. 89, 90.
 Jordan D. S. 1917 A, 141 (Lepidotes).
 Klaatsch, H. 1890 A, 144.
 Lankester, E. R. 1905 A, 250, fig. 179.
 Lee, J. E. 1860 A, 458, pl. xii.
 Leriche, M. 1902 B, 130 (Lepidotus).
 Lütken, C. 1868 C, 44.
 1871 A, 237.
 Pompeckj, J. F. 1913 A, 1142, fig. 49.
 Priem, F. 1908 A, 1, pls. i, ii.
 1908 B, 22, 26, 31.
 Regan, C. T. 1923 B, 455.
 Reynolds, S. H. 1897 A, 110.
 Ridewood, W. G. 1896 A, 385, fig. 13.
 Sauvage, E. 1867 A, 67.
 Schellwien, E. 1901 A.
 Schlosser, M. 1917 A, 140.
 Scupin, H. 1896 A, 160, pl. ix, figs. 6-8.
 Steinmann, G. 1927 A, 12.
 Stensiö, E. A. 1921 A, 174.
 1925 A, 64.
 Stolley, E. 1920 A, 77.
 Stromer, E. 1925 B, 352, 359.
 Tomes, C. S. 1898 B, 450.
 Traquair, R. H. 1900 C, 507.
 1911 A, 16.
 Watson, D. M. S. 1925 A, 824, 867.
 Woodward, A. S. 1888 M, 139.
 1896 E, 70.
 1898 B, 96, fig. 69.
 1906 C, 279.
 1908 A, 359, pl. xliii, figs. 1, 2.
 1912 A (1909), 161.
 1915 B, lxxiii.
 1919 A (1916), 26, pls. vi-x; text-figs. 12-18.
 1921 A, 181.
 1922 C, 91, fig. 97.
 Zittel and Koken 1911 A, 108.
 Zittel and Schlosser 1923 A, 11, 109, figs. 13, 185-187.
 Zittel and Woodward 1902 A, 82.
Lepidotes? lacotanus Gregory.
Gregory, W. K. 1924 A, 1, figs. 1, 2 (Lepidotus?).
 Lower Cretaceous (Lacota); South Dakota.
Lepidotes walcotti Eastman.
Eastman, C. R. 1917 A, 283, pl. xii, fig. 4; pl. xiii, fig. 3 (Lepidotus). Triassic; Utah.
Lepidotes sp. indet.
Hay, O. P. 1902 A, 374 (Lepidotus). Cretaceous (Kiowa Shales); Kansas.

ACENTROPHORUS Traquair. Type *A. varians* (Kirkby).

- Hay, O. P. 1902 A, 374.
 Abel, O. 1919 A, 199.
 Arldt, T. 1923 A, 495.
 Eastman, C. R. 1905 A, 56.
 1905 B, 94 (*Acentrophus*).
 1911 A, 29.
 Gill, E. L. 1923 A, 19, text-figs. 1-19.
 1923 B, 466, fig. 1.
 Gregory, W. K. 1923 A, 239.
 Jordan, D. S. 1905 A, ii, 23.
 Kirby, J. W. 1862 A, 267 (*Palæoniscus varians*).
 1864 A, 353, pl. xviii, fig. 2 (*Palæoniscus varians*).
 Traquair, R. H. 1900 C, 507.

- Watson, D. M. S. 1925 A, 824, 866.
 Woodward, A. S. 1915 B, lxxiii.
 1924 A, 114.
 Zittel and Woodward 1902 A, 80.

Acentrophorus chicopensis Newb.

- Hay, O. P. 1902 A, 374.
 Eastman, C. R. 1905 B, 94.
 1911 A, 28, 71.
 Emerson, B. K. 1898 A, 400.
 Hussakof, L. 1908 A, 59.
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 211.
 Triassic (Newark); New Jersey, Connecticut.

SEMIONOTUS Agassiz. Type *S. bergeri* Agassiz.

- Hay, O. P. 1902 A, 375.
 Abel, O. 1919 A, 200, figs. 153, 154.
 Agassiz, L. 1832 A, 144.
 1833 A, 474.
 1835 H, 212.
 1844 C, 265.
 1877 A, 124.
 Alessandri, G. 1910 A, 66.
 Arldt, T. 1907 D, 338.
 1923 A, 493 (*Ischypterus*); 495 (*Semionotus*).
 Barkas, W. J. 1874 D, 551 (*Ischypterus*).
 Bronn, H. G. 1848 B, 1132.
 1849 A, 659.
 Dean, Gudger, Henn 1923 A, 623.
 Deecke, W. 1913 A, 74 (*Ischypterus*); 80 (*Semionotus*).
 1926 A, 185.
 Eastman, C. R. 1905 B, 68, 73, figs. 9-11.
 1911 A, 21, 24, 40, 57.
 1914 A, 146.
 Eaton, G. F. 1903 A, 259.
 Emerson, B. K. 1898 A, 400 (*Ischypterus*).
 Giebel, C. G. 1855 A, 113.
 Gorjanovic-Kramberger, K. 1905 A, 195.
 Gregory, W. K. 1923 A, 239.
 Hay, O. P. 1901 B, 72.
 Heckel, J. F. 1850 A, 365.
 Heilprin, A. 1887 A, 302 (*Ischypterus*).
 Hennig, E. 1915 E, 49.
 Hoernes, R. 1886 A, 555.
 Huene, F. 1922 H, 153.
 1926 E, 7.
 Jordan and Evermann 1917 A, 140.
 Koken, E. 1893 B, 278.
 Philippi and Frech 1903 A, 12, pls. v, vi.
 Schellwien, E. 1901 A.
 Scupin, H. 1896 A, 168, pl. x, fig. 3.
 Steinmann, G. 1907 A, 412.
 1927 A, 74, 76.
 Stensiö, E. A. 1925 A, 86.
 Stolley, E. 1920 A, 76.
 Stromer, E. 1925 B, 349.
 Swinnerton, H. H. 1925 A, 87.
 Traquair, R. H. 1900 C, 507.
 Watson, D. M. S. 1923 A, 472.
 1925 A, 866.
 Woodward, A. S. 1888 M, 138, pl. vi.
 1890 E, 367.

- Zittel and Koken 1911 A, 106.
 Zittel and Schlosser 1923 A, 106, fig. 178.
 Zittel and Woodward 1902 A, 80.

Semionotus agassizii (W. C. Redfield).

- Hay, O. P. 1902 A, 375 (*S. agassizii*, *S. marshii*).
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 80, pl. i; pl. ii, figs. 5, 9, 10, 12; pl. iii, figs. 1, 2; pls. vii, viii (*S. marshii* a syn.).
 1911 A, 28, 61, pls. i, ii; text-fig. 8 (*S. agassizii*); 63 (*Ischypterus marshii*).
 Eaton, G. F. 1903 A, 260, 264, pl. v, figs. 5, 7, 10, 12; pl. vi, figs. 1, 2 (*S. marshii*).
 Hussakof, L. 1908 A, 98.
 Jordan, D. S. 1905 A, ii, 24.
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 210, 214 (*Ischypterus agassizii*, *I. marshii*).
 Redfield, J. H. 1888 A, 30 (*Palæoniscus*).
 Smith, J. H. 1900 A, 500, 503, figs. (*Ischypterus*).
 Triassic (Newark); New Jersey, Massachusetts.

Semionotus alatus (Newb.).

- Hay, O. P. 1902 A, 375.
 Lyman, B. S. 1894 A, 214 (*Ischypterus*).
 Triassic (Newark); New Jersey.

Semionotus beardmori (Smith).

- Smith, J. H. 1900 A, 502, 503, fig. (*Ischypterus*).
 Eastman, C. R. 1905 A, 65 (*Ischypterus beardmori*).
 1911 A, 71 (*Ischypterus beardmorei*).
 Triassic (Newark); New Jersey.
 A doubtful species.

Semionotus braunii (Newb.).

- Hay, O. P. 1902 A, 375.
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 93.
 1911 A, 28, 71.
 Hussakof, L. 1908 A, 99.
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 204 (*Ischypterus*).
 Triassic (Newark); New Jersey.

Semionotus elegans (Newb.).

- Hay, O. P. 1902 A, 375.
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 91, pl. xii.
 1911 A, 28, 71.
 1917 A, 278, 282, pl. xv, fig. 3.
 Hussakof, L. 1908 A, 99.
 Loper, S. W. 1893 A, 75 (Ischypterus).
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark); New Jersey.

Semionotus fultus (J. H. Redfield).

- Hay, O. P. 1902 A, 375.
 Agassiz, L. 1833 A, 472 (Palæoniscus).
 1835 H, 206 (Palæoniscus).
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 83, pl. ii, figs. 1-4; pl. ix, text-fig. 12.
 1911 A, 28, 63, 64, pl. iii.
 Eaton, G. F. 1903 A, 261, pl. v, figs. 1-4.
 Hussakof, L. 1908 A, 100.
 Lambe, L. M. 1915 B, 120 (This species?).
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 209, 214 (Ischypterus fultus); 214 (I. macropterus).
 Powers, S. 1916 A, 115, 121.
 Redfield, J. H. 1888 A, 34 (Palæoniscus).
 Rogers, A. F. 1924 A, 546.
 Schellwien, E. 1901 A, 29 (Ischypterus).
 Triassic (Newark); New Jersey.

Semionotus gigas (Newb.).

- Hay, O. P. 1902 A, 375.
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 83.
 1911 A, 28.
 Hussakof, L. 1908 A, 100.
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark), New Jersey.

Semionotus lenticularis (Newb.).

- Hay, O. P. 1902 A, 375.
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark); New Jersey.

Semionotus lineatus (Newb.).

- Hay, O. P. 1902 A, 375.
 Eastman, C. R. 1905 B, 89, pls. x, xi.
 1911 A, 28, 71.
 Hussakof, L. 1908 A, 100.
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark); New Jersey.

Semionotus micropterus (Newb.).

- Newberry, J. S. 1888 A, 31, pl. iv, figs. 1, 2; pl. xii, fig. 2 (Ischypterus).
 Hay, O. P. 1902 A, 375.
 Eastman, C. R. 1905 B, 87, pl. ii, figs. 6-8, 11, 13; text-fig. 13.
 1911 A, 28, 67, pl. iv.
 1914 A, 146, pl. xxxii, fig. 1.
 Eaton, G. F. 1903 A, 263, pl. v, figs. 6-8, 11, 13.
 Hussakof, L. 1908 A, 100.
 Lull, R. S. 1917 D, 109.

- Lyman, B. S. 1894 A, 209 (Ischypterus).
 Triassic (Newark); Connecticut.

Semionotus minutus (Newb.).

- Hay, O. P. 1902 A, 375.
 Eastman, C. R. 1911 A, 71.
 Hussakof, L. 1908 A, 101.
 Lyman, B. S. 1894 A, 209 (Ischypterus).
 Triassic (Newark); Connecticut.

Semionotus modestus (Newb.).

- Hay, O. P. 1902 A, 376.
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark); New Jersey.

Semionotus newberryi (Loper).

- Loper, S. W. 1893 A, 75, fig. 2 (Ischypterus).
 Eastman, C. R. 1905 A, 651.
 Loper, S. W. 1899 A, 98 (Ischypterus).
 Triassic (Newark); Connecticut.
 A doubtful species.

Semionotus ovatus (W. C. Redfield).

- Hay, O. P. 1902 A, 376.
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 78, pls. 4-6.
 1911 A, 28, 69.
 Eaton, G. F. 1903 A, 266.
 Hussakof, L. 1908 A, 100.
 Lausung, G. Y. 1854 A, 62 ("Eschypterus," This species?).
 Lull, R. S. 1917 D, 110.
 Lyman, B. S. 1894 A, 205, 208, 209, 214 (Ischypterus).
 Philippi and Frech 1903 A, 12, pl. vi.
 Redfield, J. H. 1888 A, 27 (Palæoniscus).
 Smith, J. H. 1900 A, 504, fig. (Ischypterus).
 Woodward, A. S. 1890 E, 367 ("Tetragonolepis," This species?).
 Triassic (Newark); New Jersey, Connecticut, Virginia.

Semionotus parvus (W. C. Redfield).

- Hay, O. P. 1902 A, 376.
 Eastman, C. R. 1911 A, 71.
 Loper, S. W. 1893 A, 75 (Ischypterus).
 Lyman, B. S. 1894 A, 205, 209, 210, 214 (Ischypterus).
 Triassic (Newark); Massachusetts.

Semionotus robustus (Newb.).

- Hay, O. P. 1902 A, 376.
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Eastman, C. R. 1905 B, 79.
 1911 A, 29.
 Hussakof, L. 1908 A, 100.
 Lull, R. S. 1917 D, 110.
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark); New Jersey.

Semionotus tenuiceps (Agassiz).

- Hay, O. P. 1902 A, 376.
 Bayley, Kümmel, and Salisbury 1914 A, 13.
 Bronn, H. G. 1849 A, 658 (Eurynotus).
 Eastman, C. R. 1905 B, 86.
 1911 A, 29, 63, 66.

- Eaton, G. F. 1903 A, 265.
 Hobbs, W. H. 1901 A, 56.
 Hussakof, L. 1908 A, 101.
 Lull, R. S. 1917 D, 110.
 Lyman, B. S. 1894 A, 205, 209, 214 (Ischypterus);
 210 (Ischypterus latus, I. tenuiceps).
 Newberry, J. S. 1888 A, 32, pl. v, figs. 1-3; pl.
 vii, fig. 3; 46, pl. xiii, fig. 3 (Ischypterus
 latus).
 Redfield, J. H. 1888 A, 46 (Palæoniscus).

TETRAGONOLEPIS Bronn. Type *T. semicineta* Bronn.

- Bronn, H. G. 1830, Neues Jahrb. Min., 30.
 Woodward, A. S. 1895 A, 158.
 Zittel, K. A. 1890 A, 207.

Tetragonolepis? sp. indet.

- Hay, O. P. 1902 A, 376 (Semionotus ovatus, in
 part).

- Shellwien, E. 1901 A, 29 (Ischypterus).
 Triassic (Newark); Massachusetts, Connecti-
 cut, New Jersey.

Semionotus sp. indet.

- Hitchcock, E. 1823 A, 76, pl. figs. 1, 2 ("ich-
 thyolites"). Triassic (Newark); Massachu-
 setts.
 Loper, S. W. 1899 A, 98, fig. 2 ("fish"). Tri-
 assic (Newark); Connecticut.

- Egerton, P. G. in Lyell, C. 1847 B, 277, pl. ix,
 fig. 2.

- Newberry, J. S. 1888 A, 20 (This genus?).
 Shaler and Woodworth 1899 A, 431 ("Tetrago-
 nolepis").
 Triassic (Newark); Virginia.

ASPIDORHYNCHIDÆ Nicholson and Lydekker.

- Nicholson and Lydekker 1889 A, 987.
 Arldt, T. 1923 A, 494 ("aspidorhynchiden").
 Assmann, P. 1906 A, 51, 76 (Rhynchodontidæ).
 Bridge, T. W. 1904 A, 502.
 Dean, Gudger, Henn 1923 A, 624.
 Goodrich, E. S. 1909 A, 344.
 Jordan, D. S. 1905 A, ii, 29.
 1923 A, 115.
 Nicholson and Lydekker 1889 A, 987 (Aspi-
 dorhynchidæ, Belonorhynchidæ).
 Regan, C. T. 1909 B, 77 (Aspidorhynchii).
 Reis, O. 1887 A, 155 ("aspidorhynchen").

- Schlosser, M. 1917 A, 138, 139, 140, 148 ("as-
 pidorhynchiden").
 Stensiö, E. A. 1925 A, 14, 119 ("aspidorhyn-
 chids").
 Vetter, B. 1881 A, 73 (Aspidorhynchi).
 Woodward, A. S. 1895 A, 415.
 1898 B, 111.
 1912 A (1908), 142.
 Zittel, K. A. 1890 A, 219 (Rhynchodontidæ).
 Zittel and Broili 1911 A, 111.
 Zittel, Eastman, etc. 1902 A, 88.
 Zittel and Koken 1911 A, 111.
 Zittel and Schlosser 1923 A, 112.

BELONOSTOMUS Agassiz. Type *B. tenuirostris* Agassiz.

- Agassiz, L. 1834, Neues Jahrb. Min., 388.
 1843 (1844), ii, pt. 2, 140, 297.
 Arldt, T. 1923 A, 494.
 Assmann, P. 1906 A, 56.
 Bridge, T. W. 1904 A, 502.
 Costa, O. G. 1856, Ittiol. Foss., 13 (Ophirachis).
 Dean, Gudger, Henn 1923 A, 624.
 Eastman, C. R. 1917 A, 286.
 Jordan, D. S. 1905 A, ii, 29.
 1919 B, 180.
 Nicholson and Lydekker 1889 A, 988.
 Reis, O. 1887 A, 151, pls. i, ii.
 Schlosser, M. 1917 A, 140.
 Steinmann, G. 1927 A, 75.
 Stromer, E. 1925 B, 349.
 Vetter, B. 1881 A, 84-90.
 Winckler, T. C. 1871 B, 173.

- Woodward, A. S. 1888 K, 354.
 1888 L, 145, pl. vii, figs. 7-13.
 1895 A, 428.
 1895 G, 210.
 1896 E, 70.
 1898 B, 112.
 1912 A (1908), 142.
 Zittel, K. A. 1890 A, 221.
 Zittel and Eastman, etc. 1902 A, 89.
 Zittel and Koken 1911 A, 112.
 Zittel and Schlosser 1923 A, 113.

Belonostomus ornatus Felix.

- Felix, J. 1891 A, 192, pl. xxviii, figs. 14-18;
 pl. xxx, figs. 8, 8a.
 Woodward, A. S. 1895 A, 440.
 Lower Cretaceous (Neocomian); Mexico.

LEPISOSTEIDÆ Adams.

- Adams, A. 1854 A, 93.
 Unless otherwise indicated the authors, as
 cited, employ the form Lepidosteidæ.
 Hay, O. P. 1902 A, 376 (Lepidosteidæ).
 Abel, O. 1919 A, 215.
 Agassiz, L. 1832 A, 140 (Lepidostei).
 1833 A, 475 (Sauroides).
 Allis, E. P. 1909 A, 202.
 Arldt, T. 1907 D, 662.
 1912 A, 716, 762.
 1923 A, 494 ("lepidosteiden").

- Baird, S. F. 1876 A, 311 ("garfishes").
 Bonaparte, C. L. 1840 A, 48.
 Bridge, T. W. 1896 A, 540.
 1904 A, 502.
 Carus, V. 1875 A, 590 (Lepidosteini).
 Cockerell, T. D. A. 1913 B, 121.
 Collinge, W. E. 1894 A, 528.
 Cunningham, J. T. 1912 A, 246.
 Cuvier, G. 1825 A, v, 2, 307 ("lepisostées").
 Dean, Gudger, Henn 1923 A, 624.

- Duméril, A. M. C. 1870 A, 291 ("lepidosté-
idés").
Fitzinger, L. J. 1873 A, 52 (Lepidostei).
Fowler, H. W. 1911 A, 149 (Lepisosteidae).
Gill, T. 1875 B, 252.
1885 B, 27.
Goodrich, E. S. 1908 A, 769.
1913 A, 80.
1909 A, 344 (Lepidosteus).
Gregory, W. K. 1923 A, 238, 240.
Hoernes, R. 1886 A, 556.
Huxley, T. H. 1862 A, liii.
Jaekel, O. 1911 A, 69 (Lepidostei).
Jordan, D. S. 1905 A, ii, 29, 578 (Lepisosteidae).
1907 B, 259, 761 (Lepisosteidae).
1923 A, 115 (Lepisosteidae).
Jordan and Gilbert 1882 A, 89 (Lepisosteidae).
Lemoine, V. 1889 A, 233 ("lépidostés").
Leunis and Ludwig 1883 A, 774.
Lönnerberg, E. 1901 A.
Lütken, C. 1868 C.
1871 A, 286 ("lépidostéides").
Müller, J. 1846 A, 208 (Lepidosteini).
Rabl, C. 1901 A, 489 ("lepidosteiden").
Rauther, M. 1913 A, 1100.
Sauvage, H. E. 1897 A, 92 ("lépidostéidés").
Schlosser, M. 1917 A, 144 ("lepidosteiden").
Sewertzoff, A. N. 1923 B.
Shepherd, C. E. 1914 A, 262.
Terra, P. 1911 A, 205.
Wallace, A. R. 1876 A, ii, 459.
Watson, D. M. S. 1925 A, 866, 867 ("lepi-
dosteoids").
Woodward, A. S. 1893 B, 112.
Zittel and Koken 1911 A, 112.
Zittel and Schlosser 1923 A, 113 (Lepisosteidae).
Zittel and Woodward 1902 A, 89.

LEPISOSTEUS Lacépède. Type *L. gavalis* Lacépède=*Esox osseus* Linn.

- Unless otherwise indicated the authors, as
quoted, employ the name *Lepidosteus*.
Hay, O. P. 1902 A, 376 (Lepisosteus).
Abel, O. 1912 F, 429, 513.
1919 A, 43, 216, figs. 17, 25.
1920 A, 337, figs. 535; 536.
Adams, L. A. 1919 A, 71, pl. ii.
Agassiz, A. 1877 A, 117, fig. 1.
Agassiz, L. 1832 A, 140.
1835 D, 189.
1835 E, 199.
1835 F, 253.
1835 J, 119.
1844 C, 268.
1856 C, 63.
Allis, E. P. 1897 A, 10.
1898 A, 430.
1898 B, 93.
1905 A, 407.
1909 A, 214.
1915 A, 566.
1918 A, 242.
1918 B, 260.
1919 A, 368.
1919 C, 245.
1919 E, 369.
1922 B.
1922 C, 11.
1923 A, 41, 44.
1926 A, 169.
Arlt, T. 1907 D, 97, 284 (Lepisosteus).
1923 A, 494 (Lepisosteus, Clastes, Pneu-
matosteus).
Assinann, P. 1906 A, 78.
Baird, S. F. 1876 A, 347.
Baraldi, G. 1877 A, 12.
Baudelot, E. 1873 A, 94, 122.
Baur, G. 1893 D, 117.
Beer, G. R. 1926 A, 283, figs. 111, 115, 120.
Bliss, R. 1875 A, 386.
Boas, J. E. V. 1914 B, 543.
Brandt, J. F. 1865 A, 7.
Bridge, T. W. 1878 A, 688.
1896 A, 540, pl. xxi.
1904 A, 503, 744.
Bronn, H. G. 1848 A, 632, 634.
Cockerell, T. D. A. 1913 B, 121 (Lepisosteus).
Collinge, W. E. 1893 B, 259.
1893 C, 263.
1895 C, 888.
Connell, A. 1835 B, 191.
Cope, E. D. 1880 U, 148 (Clastes).
Coulon, L. 1903 A, 143.
Credner, H. 1893 A, 669.
Cunningham, J. T. 1912 A, 236, 258, pl. xx.
Cuvier, G. 1815 A, 117 ("lépisostées").
Day, H. 1915 A, 431.
Dean, B. 1895 C, 734.
1896 D, 338.
Dean, Gudger, Henn 1923 A, 687.
Deeke, W. 1913 A, 71.
Derjugin, K. M. 1909 A.
1910 A, 629.
Dollo, L. 1892 D, 120.
1893 E, 193.
Duméril, A. M. C. 1856 A, 434 ("lépisostée").
1870 A, 291; pls. xxi, xxii, xxiv (Lepisos-
teus).
Eastman, C. R. 1911 A, 18.
1917 A, 282.
Edgeworth, F. H. 1925 A, 234, 240 (Lepidos-
teus).
1926 A, 181, fig. 18 (Lepidosteus).
Egerton, P. G. 1852 C, 6L, 2.
Fowler, H. W. 1911 A, 150 (Lepisosteus).
Gadow, H. 1896 A, 7.
Gaupp, E. 1902 A, 218.
1905 D, 900.
1906 B.
1908 C, 704.
1910 C, 338.
1912 B, 227.
Gegenbaur, C. 1867 A, 56.
1867 B, 358-420, pls. vii-ix.
Gihmore, C. W. 1917 B, 4 (Lepisosteus).
Goetsch, W. 1920 A, 13, 17, 515.
Goodrich, E. S. 1904 A, 477, fig. 2.
1908 A, 757, 758.
1909 A, 512, figs.
1913 A, 81.
Green, J. 1858 A, 363.
Gregory, W. K. 1915 D, 327.

- Gregory, W. K. 1920 A, 222.
 1922 A, 9, 79.
 Hague, F. 1924 A, 274.
 Hase, A. 1907 A.
 Hasse, C. 1893 C, 94, pl. vi, fig. 13.
 Hasse and Schwarck 1870 A, 30.
 Hatschek, B. 1889 B, 115, fig. 3.
 Heckel, J. J. 1850 A, 365.
 1850 B, 145.
 1851 A, 222.
 Heilprin, A. 1887 A, 68.
 Hertwig, O. 1879 A, lxxx.
 Hilgard, T. C. 1860 A, 679 ("gars").
 Hubbs, C. L. 1919 B, 63.
 Huxley, T. H. 1858 D, 517.
 1859 H, 45.
 1862 A, xlix.
 1863 F, 427.
 1883 B, 569.
 Imms, A. D. 1904 A, 30.
 Jordan, D. S. 1905 A, ii, 23, 578 (Lepisosteus).
 1907 B, 260 (Lepisosteus).
 Jordan and Evermann 1917 A, 66 (Lepisosteus).
 Jordan and Gilbert 1882 A, 90 (Lepisosteus).
 Kehrer, F. A. 1896 A, 350.
 Kesteven, H. L. 1922 A, 312.
 Kiaer, J. 1924 A, 95.
 Kindred, J. E. 1919 A.
 Kingsley, J. S. 1925 A, 33, 103, 104, figs. 36, 111, 112.
 Klaatsch, H. 1890 A, 124, 125, pl. vii.
 1893 C, 181.
 Kner, R. 1860 B, 819.
 Köstlin, O. 1844 A.
 Kryzanovsky, S. 1916 A, 237.
 Lakjer, T. 1927 A.
 Lavocat, A. 1885 A, 32 ("lépidostée").
 Lebedinsky, N. G. 1917 A, 315 (Lepisosteus).
 Lee, J. E. 1860 A, 453, pl. xii.
 Leriche, M. 1900 A, 187.
 1902 A, 12.
 1906 C, 417.
 Leunis and Ludwig 1883 A, 774.
 Lönnberg, E. 1901 A.
 1902 A.
 Lucas, F. A. 1901 J, 57 ("gar pike").
 Luther, A. 1913 B, 13, 26, 58.
 Lütken, C. 1868 C.
 Mantell, G. A. 1844 A, 651.
 Matthes, E. 1921 A, 221.
 Matthew, W. D. 1915 A, 298.
 Mayhew, R. L. 1924 A, 315.
 Meek, A. 1916 A, 52.
 Miall, L. C. 1872 A, 25, 31.
 Müller, J. 1845 A.
 Nopcsa, F. 1923 C, 474.
 Norman, E. W. 1926 A.
 Osburn, R. C. 1906 B, 587.
 Owen, R. 1848 B, 49.
 1868 A, 888.
 Peale, A. C. 1876 A, 154 (Clastes).
 Pehrson, T. 1922 A.
 Plate, L. 1926 A, 44.
 Pompeckj, J. F. 1913 A, 1145.
 Priem, F. 1901 A, 490 (Lepisosteus); 491 (Clastes).
 1908 B, 81, 90.
 Rauther, M. 1913 A, 1071, fig. 26.
 Regan, C. T. 1923 B, 445, 455.
 Reis, O. 1887 A, 151 (Lepisosteus).
 Reynolds, S. H. 1897 A, 545.
 Ridewood, W. G. 1896 A, 381.
 1904 A, 56.
 1905 C, 279.
 Rogers, A. F. 1924 A, 546.
 Romer, A. S. 1924 A, 123, 128, figs. 2, 3, 6, 7, 9.
 Rosén, N. 1916 A, 21, fig. 10.
 Ryder, J. 1885 E, 95.
 Sagemehl, M. 1883 A.
 1884 A, 19.
 Salensky, W. 1899 B, 317.
 Sauvage, H. E. 1897 A, 92 (Lepisosteus, Clastes).
 Scharff, R. F. 1911 A, 163, 198, 290.
 1922 A, 68.
 Schauinsland, H. 1906 A, 438, 449, figs. 251-254.
 Schlesinger, G. 1909 A (144).
 Schlosser, M. 1901 N, 480.
 1917 A, 142.
 Schmalhausen, J. J. 1912 A, 539, 568, pls. xvi-xviii.
 1913 A, 3.
 1913 C, pls. ii, iii.
 1923 B, 546, fig. 1.
 Schreiner, K. E. 1902 A, 467 (Lepisosteus).
 Scupin, H. 1896 A, 166.
 Sewertzoff, A. 1896 A, 239, fig. 2.
 1918 A, 207.
 1923 B.
 1924 A, 578.
 1925 A, 274.
 1926 A, 523.
 1926 D, 77.
 1926 E, 555.
 Solger, B. 1880 A, 368.
 Stadtmüller, F. 1926 A, 160, fig. 6.
 Stanton and Hatcher 1905 A, 38 (Lepidotus).
 Starks, E. C. 1916 A, 12.
 Steinmann, G. 1912 B, 726.
 Stensiö, E. A. 1921 A, 138, 275.
 1925 A, 14, 24, 31.
 1925 B, 106.
 Stephan, P. 1900 A, 287.
 Strecker, C. 1887 A, 302.
 Stromer, E. 1925 B, 360 (Lepisosteus).
 Sushkin, P. P. 1910 A, 252.
 1927 A, 264.
 Sutton, J. B. 1884 A, 570.
 Taylor, H. F. 1916 A, 298.
 Terra, P. 1911 A, 96, fig. 24.
 Tims, H. W. 1905 A, 45.
 Tomes, C. S. 1877 A, 46.
 1878 A, 33, pl. iv.
 1898 C, 347.
 Traquair, R. H. 1880 A, 157.
 1900 C, 508.
 Uhlmann, E. 1921 A, 302.
 Ussow, S. 1900 A.
 Van Wijhe, J. W. 1922 A, 293 (Lepisosteus).
 Veit, O. 1911 A.
 Wagner, R. 1843 A.
 Wallace, A. R. 1876 A, ii, 459.
 Wamich, P. 1913 A, 21.
 Watson, D. M. S. 1912 A, 5.
 1925 A, 851.

White, C. A. 1885 A, 64.
Wiedersheim, R. 1880 C, 128.
Wilder, B. 1843 B, 131.
1876 A, 153, 166, pl. i.
Woodward, A. S. 1898 B, 113.
Woodward, H. 1878 A, 19.

1906 C, 279.
Wyman, J. 1843 B, 131.
Zittel and Schlosser 1923 A, 113, figs. 7, 196.
Zittel and Koken 1911 A, 113, figs. 6, 208.
Zittel and Woodward 1902 A, 89.

Lepisosteus aganus (Cope).

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
Merrill, G. P. 1907 A, 7 (Clastes).
Stromer, E. 1925 B, 361.
Eocene (Wasatch); New Mexico.

Lepisosteus atrox Leidy.

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
Hussakof, L. 1908 A, 78.
Hussakof and Bryant 1919 A, 195.
Jordan, D. S. 1905 A, ii, 32.
Merrill, G. P. 1907 A, 7 (Clastes anax, atrox);
12 (L. atrox).
Sauvage, H. E. 1901 G, 80 (Lepidosteus).
Schlosser, M. 1901 N, 480 (Lepidosteus).
Stromer, E. 1925 B, 360.
Eocene (Bridger); Wyoming.

Lepisosteus cuneatus (Cope).

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1909 B, 796.
Hussakof, L. 1908 A, 78.
Hussakof and Bryant 1919 A, 195.
Stromer, E. 1925 B, 360.
Eocene (Manti); Utah.

Lepisosteus cycliferus (Cope).

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
Merrill, G. P. 1907 A, 8 (Clastes).
Eocene (Wasatch); Wyoming.

Lepisosteus glaber Marsh.

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
Cope, E. D. 1874 B, 441.
Eocene (Bridger); Wyoming.

Lepisosteus integer (Cope).

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
Loomis, F. B. 1907 B, 358 (Lepidosteus).
Merrill, G. P. 1907 A, 8 (Clastes).
Stromer, E. 1925 B, 361 (Lepidosteus).
Eocene (Wasatch); New Mexico.

Lepisosteus knieskerni Fowler.

Fowler, H. W. 1911 A, 150, fig. 92. Cretaceous??; New Jersey.

Lepisosteus longus Lambe.

Lambe, L. M. 1908 A, 9, 13, pl. i, figs. 7-9 (Lepidosteus). Oligocene (Cypress Hills); Saskatchewan.

Lepisosteus nahunticus (Cope).

Hay, O. P. 1902 A, 377.
Hussakof, L. 1908 A, 79, fig. 41.
Miocene; North Carolina.

Lepisosteus notabilis Leidy.

Hay, O. P. 1902 A, 377.
Cockerell, T. D. A. 1908 A, 163 (Lepidosteus).
Leidy, J. 1873 B, 192, 349, pl. xxxii, figs. 12, 13.
Eocene (Bridger); Wyoming.

Lepisosteus occidentalis Leidy.

Hay, O. P. 1902 A, 377.
Bowen, C. F. 1915 A, 118, 148-151 (L. occidentalis, L. Haydeni).
Brown, B. 1907 A, 842.
1914 E, 358, 378.
Cockerell, T. D. A. 1908 C, 163 (Lepidosteus occidentalis, L. haydeni).
Cross, W. 1896 A, 227.
Gilmore, C. W. 1924 D, 27.
Hatcher, J. B. 1905 B, 67 (Lepidotus occidentalis); 68 (Lepidotus haydeni).
Hay, O. P. 1903 D, 119.
1910 B, 296.
Lambe, L. M. 1902 A, 29, pl. xix, fig. 3.
1904 C, 21, 36, 43 (Lepidosteus).
1907 B, 179 (Lepidotus).
Matthew, W. D. 1916 A, 485.
Osborn, H. F. 1902 I, 11 (Lepidotus).
Peale, A. C. 1912 A, 746, 754 (Lepidotus).
Sternberg, C. M. 1924 A, 68 (Lepisosteus).
Stromer, E. 1925 B, 360.
Williston, S. W. 1902 K, 953.
Cretaceous (Judith River); Montana: (Hell Creek); Montana: (Belly River); Alberta: (Lance); Wyoming, Saskatchewan: (Arapahoe or Denver); Colorado.

Lepisosteus osseus (Linn.).

Unless otherwise indicated, the authors, as cited, spell this name *Lepidosteus*.
Hay, O. P. 1902 A, 377 (Lepisosteus).
Abel, O. 1912 F, 429, fig. 305.
1919 A, 52, fig. 25.
Agassiz, L. 1835 B, 338.
Allis, E. P. 1919 C, 249.
Beer, G. R. 1926 A, 284, figs. 25-33.
Cockerell, T. D. A. 1908 C, 163.
Collinge, W. E. 1893 C, 263, pls. iv-ix.
Cuvier, G. 1814 A, 76 (Esox).
Goetsch, W. 1920 A, 14, 516, pl. i (Lepisosteus).
Goodrich, E. S. 1901 A, 319, fig. 1.
1909 A, 512, figs.
Hay, O. P. 1923 A, 363, 366 (Lepisosteus).
Hertwig, O. 1874 B, pl. i, figs. 1, 2 (Lepisosteus).
Jackson, C. T. 1854 B, 92 ("gar-pike").
Jordan and Evermann 1896 A, 109 (Lepisosteus).
Jordan and Gilbert 1882 A, 91.
Klaatsch, H. 1890 A, 125, 200, pl. vii.
Köstlin, O. 1844 A, 332 (Lepisosteus).
Luther, A. 1913 B, 27, pl. i, text-figs. 12, 13, 28 (Lepisosteus).
Mayhew, R. L. 1924 A, 315.
Norman, E. W. 1926 A, 437, fig. 50.

- Regan, C. T. 1923 B, 445 (*Lepisosteus*).
 Seupin, H. 1896 A, 166 (*Lepisosteus*).
 Sewertzoff, A. N. 1925 A, 273, fig. 3.
 1926 D, 78, fig. 1.
 Shepherd, C. E. 1910 B, 296, pl. ii, fig. 6.
 1914 A, 262.
 Stephan, P. 1900 A, 355, fig. 3 (*Lepisosteus*).
 Veit, O. 1907 A, 157, figs. 1-12.
 1911 A, 93-225, pls. A-C.
 Recent; Mississippi Valley: Pleistocene;
 South Carolina.

***Lepisosteus platostomus* Rafinesque.**

- Rafinesque, C. S.* 1820, Ichth. Ohiensis, 72.
 Hay, O. P. 1917 E, 43.
 1923 A, 382.
 Jordan and Evermann 1896 A, 110.
 Mayhew, R. L. 1924 A, 315, pls. i-iv (*Lepidos-*
teus).
 Parker and Haswell 1897 A, 203, fig. 826.
 Regan, C. T. 1923 B, 445, figs. 2-5 (*Lepidos-*
teus).
 Recent; Great Lakes to the Gulf and
 southwestern Texas: Pleistocene (Middle?);
 Florida.

***Lepisosteus simplex* Leidy.**

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (*Lepidosteus*).
 1909 B, 796.
 Hussakof and Bryant 1919 A, 195, pl. lxviii.

- Merrill, G. P. 1907 A, 12.
 Sauvage, H. E. 1901 G, 81 (*Lepidosteus*).
 Schlosser, M. 1901 N, 480 (*Lepidosteus*).
 Stromer, E. 1925 B, 360.
 Eocene (Bridger); Wyoming.

***Lepisosteus whitneyi* Marsh.**

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (*Lepidosteus*).
 Eocene (Bridger); Wyoming.

***Lepisosteus* sp. indet.**

- Gidley, J. W. 1915 E, 539 (This genus?). Upper
 Cretaceous (Fort Union); Montana.
 1927 E, 274. Pleistocene; Florida.
 Gilmore, C. W. 1916 D, 302, pl. lxxvii, fig. 5.
 Upper Cretaceous; New Mexico.
 1920 A, 8, 68. Upper Cretaceous (Kirt-
 land); New Mexico.
 1926 J, 28. Upper Cretaceous (Lance);
 Wyoming.
 Hay, O. P. 1903 D, 120.
 1927 D, 274. Pleistocene; Florida.
 Merrill, G. P. 1907 A, 7 (Clastes); 12 (*Lepi-*
osteus).
 Reeside, J. B. 1924 A, 21. Upper Cretaceous
 (Fruitland); 23 (McDermott); p. 31 (Ojo
 Alama); 38, 42 (Nacimiento); New Mexico.
 Sinclair and Granger 1914 A, 303. Eocene; New
 Mexico.

ATRACTOSTEUS Rafinesque. Type *Lepisosteus* (*A.*) *ferox* Raf. (= *A. tristæchus*).

- Rafinesque, C. S.* 1820, Ichth. Ohien., 75.
 Gregory, W. K. 1920 A, 112, fig. 4 (*Lepidosteus*).
 Jordan and Evermann 1896 A, 109, 111.
 Regan, C. T. 1923 B, 445, fig. 1 (*Lepidosteus*).

***Atractosteus emmonsi* sp. nov.**

- Emmons, E. 1858 B, 244, fig. 98 ("ganoid").
 Miocene?; North Carolina.

***Atractosteus lapidosus* Hay.**

- Hay, O. P. 1919 C, 110-111, pl. xxvi, fig. 4; pl.
 xxviii, fig. 8.
 Hay, O. P. 1923 A, 375.
 Pleistocene; Florida.

***Atractosteus tristæchus* (Bloch and Schneider).**

- Bloch and Schneider* 1801, Syst. Ichth., 395
 (Esox).
 Girard, C. F. 1858 Pacif. R. R. Explor., 353
 [*Lepidosteus* (*Atractosteus*) *berlandieri*].
 Günther, A. C. 1870 A, 329 (*Lepidosteus viridis*).
 Hay, O. P. 1926 C, 1 (This species?).
 Jordan and Evermann 1896 A, 111 (*Lepisosteus*).
 1900 A, 3235, pl. xxii, fig. 50 (*Lepisosteus*).
 Jordan and Gilbert 1882 A, 92 (*Litholepis*).
Rafinesque, C. S. 1820, Ichth. Ohien., 73 [*Lepi-*
osteus (*Atractosteus*) *ferox*].
 Recent; Southern States, Cuba, Mexico:
 Pleistocene (Early); Texas.

Suborder AMIIFORMES, new name.

- Hay, O. P. 1902 A, 378 (*Halecomorphi*).
 Allis, E. P. 1909 A, 201 (*Halecomorphi*).
 Arltdt, T. 1907 D, 282 (*Cyclolepidoti*).
 Beer, G. R. 1926 A, 289 (*Halecomorphi*).
 Cockerell, T. D. A. 1913 B, 122 (*Halecomorphi*).
 Cope, E. D. 1871 T, 452, 453 (*Halecomorphi*).
 1891 N, 22 (*Halecomorphi*).
 Coulon, L. 1903 A, 149 ("amioides").
 Eastman, C. R. 1908 A, 63 (*Protospondyli*).
 1904 A, 494 (*Protospondyli*).
 1909 A, 327 (*Amioidei*).
 Goodrich, E. S. 1913 A, 80 (*Amioidei*).
 Gorjanovič-Kramberger, K. 1905 A, 195 (*Proto-*
spondyli).

- Gregory, W. K. 1907 D, 448, 466 (*Halecomor-*
phi).
 1923 A, 238, 240 (*Amioidea*).
 Huxley, T. H. 1861 D, 442, 448 (*Amiadæ*).
 Jaekel, O. 1911 A, 84 (*Amii*).
 Jordan, D. S. 1905 A, ii, 33, 574 (*Halecomorphi*).
 1907 B, 261, 761 (*Halecomorphi*).
 1923 A, 115 (*Halecomorphi*).
 Jordan and Gilbert 1882 A, 92 (*Halecomorphi*).
 Kingsley, J. S. 1885 A, 97 (*Halecomorphi*).
 Oswald, F. 1909 A, 126 (*Amioidea*).
 Pompeckj, J. F. 1913 A, 1144 (*Amioidei*).
 Regan, C. T. 1909 B, 76 (*Amioidei*, *Pachycor-*
moidei).

- Schlosser, M. 1917 A, 136, 148 (Halecomorphi).
 Stromer, E. 1912 A, 31 (Amioidei).
 1925 B, 361, 365 (Amioidei).
 Zittel and Koken 1911 A, 113 (Amioidei).
 Zittel and Schlosser 1923 A, 113 (Amioidei).
 Zittel and Woodward 1902 A, 89 (Amioidei)

FURIDÆ Jordan.

- Jordan, D. S. 1923 A, 116.
 Unless otherwise indicated, the authors, as cited, use for this family the name Eugnathidæ.
 Hay, O. P. 1902 A, 378 (Isopholidæ).
 Arltdt, T. 1923 A, 495.
 Boulenger, G. A. 1904 D, 498.
 Bridge, T. W. 1904 A, 498.
 Cunningham, J. T. 1912 A, 258.
 Eastman, C. R. 1905 B, 100.
 1911 A, 29, 73.
 Goodrich, E. S. 1904 A, 495.
 Goodrich, E. S. 1909 A, 390.
 Gregory, W. K. 1923 A, 238.
 Jordan, D. S. 1905 A, ii, 26 (Isopholidæ).
 Pompeckj, J. F. 1913 A, 1144.
 Priem, F. 1908 B, 15 ("eugnathidés").
 Regan, C. T. 1923 B, 457, 460.
 Stolley, E. 1920 A, 77.
 Swinnerton, H. H. 1925 A, 98 (Eugnathidæ).
 Woodward, A. S. 1906 C, 279 (Eugnathus).
 Zittel and Koken 1911 A, 114 (Caturidæ).
 Zittel and Schlosser 1923 A, 116 (Caturidæ).
 Zittel and Woodward 1902 A, 83.

OTOMITLA Felix. Type *O. speciosa* Felix.

- Felix, J. 1891 A, 189.
 Woodward, A. S. 1896 E, 70.
 1898 B, 108.
 Otomitla speciosa Felix.
 Felix, J. 1891 A, 189, pl. xxix, fig. 3; pl. xxx, figs. 3-5.
 Woodward, A. S. 1895 A, 358.
 Cretaceous (Neocomian); Mexico.

PTYCHOLEPIS Agassiz. Type *P. bollensis* Agassiz.

- Agassiz, L. 1832 A, 142.
 Hay, O. P. 1902 A, 378.
 Agassiz, L. 1832 A, 142.
 1833 A, 476.
 1835 H, 219.
 Alessandri, G. 1910 A, 123.
 Bronn, H. G. 1849 A, 663.
 Deecke, W. 1913 A, 74.
 1926 A, 193.
 Eastman, C. R. 1905 B, 100.
 1911 A, 21, 29, 73.
 Egerton, P. G. 1852 C, 6 H, i, pl. vii.
 1855 A, 8 I, i, pl. viii.
 Hennig, E. 1919 B, 173, pl. iii, text-fig.
 Jordan and Evermann 1917 A, 140.
 Koken, E. 1893 B, 278.
 Priem, F. 1908 B, 16.
 Scupin, H. 1896 A, 169, pl. x, fig. 5.
 Zittel and Koken 1911 A, 116.
 Zittel and Schlosser 1923 A, 118.
 Zittel and Woodward 1902 A, 84.
 Ptycholepis marshi Newberry.
 Newberry, J. S. 1878 B, 127.
 Hay, O. P. 1902 A, 378 (P. marshii).
 Eastman, C. R. 1905 B, 100.
 1911 A, 29, 73, pls. vii, viii.
 Hussakof, L. 1908 A, 95, pl. vi.
 Loper, S. W. 1899 A, 98 (P. marshii).
 Lull, R. S. 1917 D, 110.
 Lyman, B. S. 1894 A, 209 (P. marshii).
 Moodie, R. L. 1918 B, 390.
 1923 B, 329.
 Triassic (Newark); Connecticut.

MACROSEMIIDÆ Cope.

- Hay, O. P. 1902 A, 378.
 Abel, O. 1919 A, 204.
 Arltdt, T. 1923 A, 495 ("macrosemiden").
 Goodrich, E. S. 1904 A, 495.
 1908 A, 769.
 1909 A, 336.
 Gregory, W. K. 1907 D, 448.
 1923 A, 238, 240.
 Jordan, D. S. 1905 A, ii, 26, 580.
 1907 B, 761.
 1923 A, 115.
 Regan, C. T. 1923 B, 455, 460.
 Schlosser, M. 1917 A, 138, 140, 147 ("macrosemiiden").
 Steinmann, G. 1927 A, 75 (Macrosemiidæ).
 Traquair, R. H. 1911 A, 29.
 Watson, D. M. S. 1925 A, 866 ("macrosemiids").
 Woodward, A. S. 1906 C, 279.
 Zittel and Koken 1911 A, 109.
 Zittel and Schlosser 1923 A, 110.
 Zittel and Woodward 1902 A, 84.

MACREPISTIUS Cope. Type *M. arenatus* Cope.

- Hay, O. P. 1902 A, 378.
 Zittel and Woodward 1902 A, 84.
 Macrepistius arenatus Cope.
 Hay, O. P. 1902 A, 378.
 Hill, R. T. 1901 A, 159, pl. xxiv.
 Hussakof, L. 1908 A, 81.
 Jordan, D. S. 1905 A, ii, 26.
 Lower Cretaceous (Glen Rose); Texas

PACHYCORMIDÆ Woodward.

- Hay, O. P. 1902 A, 378.
 Arltdt, T. 1923 A, 495 ("pachycormiden").
 Bridge, T. W. 1904 A, 501.
 Dean, Gudger, Henn 1923 A, 624.
 Dollo, L. 1892 F, 182 (Protosphyraenidæ).
 Goodrich, E. S. 1908 A, 769.
 1909 A, 331.
 Gregory, W. K. 1923 A, 238.
 Gudger, E. W. 1918 A, 100 (Protosphyraenidæ).
 Hennig, E. 1920 B, 113.
 Jordan, D. S. 1905 A, ii, 34 (Pachycormidæ
 Protosphyraenidæ).
 1907 B, 761 (Pachycormidæ, Protosphyraenidæ).

- Jordan, D. S. 1923 A, 115.
 Regan, C. T. 1923 B, 445.
 Schlosser, M. 1917 A, 136, 138 ("pachycormiden"); 142 ("protosphyraeniden").
 Steinmann, G. 1927 A, 77.
 Stromer, E. 1925 B, 361 (Protosphyraenidæ).
 Woodward, A. S. 1898 B, 109.
 1922 C, 93.
 Zittel and Koken 1911 A, 113.
 Zittel and Schlosser 1923 A, 114 (Pachycormidæ); 115 (Protosphyraenidæ).
 Zittel and Woodward 1902 A, 90.

PROTOSPHYRÆNA Leidy. Type *P. ferox* Leidy.

- Hay, O. P. 1902 A, 379.
 Andreae, A. 1901 A, 308.
 1904 A, 309.
 Arltdt, T. 1923 A, 495 (Protosphyraena); 510 (Pelecoperus).
 Bayer, F. 1908 A, 3 (Erisichte).
 1909 A, 103.
 Cockerell, T. D. A. 1919 A, 172.
 Cope, E. D. 1880 U, 146 (Erisichthe).
 Dean, Gudger, Henn 1923 A, 624.
 Dollo, L. 1892 F, 182.
 Eastman, C. R. 1901 B, 111.
 1917 A, 298.
 Fossa-Mancini, E. 1921 A, 196 (Pelecoperus).
 Gregory, W. K. 1923 A, 241.
 Gudger, E. W. 1918 A, 100.
 Hay, O. P. 1902 F, 470.
 1903 A, 2, 13, text-fig. 6.
 Hennig, E. 1912 A, 489.
 Jordan, D. S. 1905 A, ii, 34.
 Lydekker, R. 1910 F, 673.
 McClung, C. E. 1908 B, 244, pl. xiii; text-figs. 9, 10.
 Mudge, B. F. 1875 A, 122 ("new genus").
 Pompeckj, J. F. 1913 A, 1144.
 Priem, F. 1896 B, 18.
 1908 B, 49, fig. 19.
 Rogers, A. F. 1924 A, 545.
 Schlosser, M. 1917 A, 140, 141.
 Sternberg, C. H. 1907 C, 123.
 1917 A, 177 ("snout fish").
 Storms, R. 1891 A, 154.
 Stromer, E. 1924 B, 349, 361.
 Woodward, A. S. 1895 G, 211, pl. viii and text-figs. 1-4.
 1912 A (1908), 145.
 1912 C, 329, pl. xix.
 Zittel and Koken 1911 A, 130.
 Zittel and Schlosser 1923 A, 116, fig. 202.
 Zittel and Woodward 1902 A, 91.

Protosphyraena angulata Cope.

- Hay, O. P. 1902 A, 379.
 Hussakof, L. 1908 A, 92, fig. 47 (This genus?).
 Cretaceous; North Carolina.

Protosphyraena bentoniana Stewart.

- Hay, O. P. 1902 A, 379.

- Cockerell, T. D. A. 1919 A, 171.
 Upper Cretaceous (Benton); Kansas.

Protosphyraena chirurgus (Cope).

- Hay, O. P. 1902 A, 379.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena dimidiata (Cope).

- Hay, O. P. 1902 A, 379.
 1903 A, 16, text-figs. 8-10, 11?, 12?.
 Hussakof, L. 1908 A, 92.
 Cretaceous (Niobrara); Kansas.

Protosphyraena gigas Stewart.

- Hay, O. P. 1902 A, 379.
 Schlosser, M. 1901 L, 479.
 Upper Cretaceous (Pierre); Kansas.

Protosphyraena gladius (Cope).

- Hay, O. P. 1902 A, 379.
 1903 A, 24.
 Hussakof, L. 1908 A, 93.
 Cretaceous (Niobrara); Kansas.

Protosphyraena nitida (Cope).

- Hay, O. P. 1902 A, 379.
 Bayer, F. 1909 A, 103.
 Gudger, E. W. 1918 A, 100, pl. vii, fig. 25.
 Hay, O. P. 1903 A, 3, text-figs. 1-3.
 Hussakof, L. 1908 A, 93, fig. 48b.
 Zittel and Schlosser 1923 A, 115, fig. 201.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena obliquidens Loomis.

- Hay, O. P. 1902 A, 379.
 1903 A, 7.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena occidentalis Stewart.

- Hay, O. P. 1902 A, 380.
 Andreae, A. 1904 A, 309 (Ichthyodectes).
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena penetrans (Cope).

- Hay, O. P. 1902 A, 379.
 Bayer, F. 1909 A, 103.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena perniciosus (Cope).

- Hay, O. P. 1902 A, 379.
 1903 A, 9, pl. i, fig. 1; text-figs. 4, 5, 7.
 Hussakof, L. 1908 A, 94.
 Woodward, A. S. 1912 A, (1908), 146, 150, text-fig. 43.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena recurvirostris Stewart.

- Hay, O. P. 1902 A, 379.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena sequax Hay.

- Hay, O. P. 1903 A, 20.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena tenuis Loomis.

- Hay, O. P. 1902 A, 379.
 1903 A, 14, pl. i, figs. 2, 3.
 Hussakof, L. 1908 A, 94.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena ziphioides (Cope).

- Hay, O. P. 1902 A, 379.
 1903 A, 22, text-figs. 13, 14.
 Hussakof, L. 1908 A, 95, fig. 48a.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena sp. indet.

- Hill, R. T. 1901 A, 328. Lower Cretaceous (Eagle Ford); Texas.
 Hussakof, L. 1908 A, 95. Upper Cretaceous (Niobrara); Kansas.
 Sternberg, C. H. 1913 A, 48. Upper Cretaceous (Niobrara); Kansas.

AMIIDÆ Günther.

- Günther, A. C. 1870 A, 324.
 Hay, O. P. 1902 A, 380.
 Abel, O. 1919 A, 212.
 Arltdt, T. 1907 D, 637.
 1912 A, 716, 762.
 1923 A, 495 ("amiiden").
 Braus, H. 1901 B, 217, 282 ("amiaden").
 Bridge, T. W. 1896 A, 537.
 1904 A, 499, 730.
 Cockerell, T. D. A. 1913 B, 122.
 Collinge, W. E. 1894 A, 529.
 1895 D, 83.
 Cunningham, J. T. 1912 A, 246.
 Cuvier, G. F. 1805 A ("amies").
 Dean, Gudger, Henn 1923 A, 624, 649.
 Duméril, A. 1870 A, 18, 398 ("amiadés").
 Fitzinger, L. J. 1873 A, 51 (Amiæ).
 Giebel, C. G. 1855 A, 111 (Amiadæ).
 Gill, T. 1875 B, 252.
 1885 B, 18.
 Goodrich, E. S. 1908 A, 769.
 1909 A, 333.
 Gregory, W. K. 1923 A, 238, 240.
 Hoernes, R. 1886 A, 557 (Amiadæ).
 Jordan, D. S. 1905 A, ii, pp. 34, 556.
 1907 B, 262 (Amiidæ); p. 761 (Amiatidæ).
 Jordan, D. S. 1923 A, 116.
 Jordan and Gilbert 1882 A, 92.
 Kiaer, J. 1924 A, 95, 97, 125 (Amioidei).
 Klaatsch, H. 1890 A, 178 ("amiaden").
 1893 B, 667 ("amiaden").
 Lambe, L. M. 1905 D, 370 A.
 Lemoine, V. 1889 A, 233 ("amiadés").
 Leriche, M. 1900 A, 183 (Amiadæ).
 Leunis and Ludwig 1883 A, 775.
 Lönnberg, E. 1901 A (Amiadæ).
 Lütken, C. 1871 A, 293 ("amides").
 Pompeckj, J. F. 1913 A, 1144.
 Rabl, C. 1901 A, 489 ("amiaden").
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1923 B, 455.
 Schlosser, M. 1917 A, 144 ("amiiden").
 Scupin, H. 1896 A, 174, 184 (Amiadæ).
 Sewertzoff, A. N. 1923 B.
 Shepherd, C. E. 1914 A, 262 (Amidæ).
 Stannius, H. 1854 A (Amiæ).
 Stromer, E. 1925 B, 361.
 Wallace, A. R. 1876 A, ii, 458.
 Woodward, A. S. 1902 C, 83 ("amioids").
 Zittel and Koken 1911 A, 116 (Megaluridæ).
 Zittel and Schlosser 1923 A, 119 (Megaluridæ).
 Zittel and Woodward 1902 A, 91.

AMIOPSIS Kner. Type *A. prisca* Kner.

- Hay, O. P. 1902 A, 380.
 Jordan, D. S. 1905 A, ii, 36.
 Sauvage, H. E. 1900 B, 116.

Amiopsis? dartoni Eastman.

- Hay, O. P. 1902 A, 380.
 Gilmore, C. W. 1905 A, 80.
 Hussakof, L. 1916 C, 348.
 Sauvage, H. E. 1900 B, 116.
 Jurassic (Basal); South Dakota.

AMIA Linnæus. Type *Amia calva* (Linn).

- Hay, O. P. 1902 A, 380.
 Abel, O. 1919 A, 37, 214, figs. 9, 10.
 Adams, L. A. 1919 A, 69, pl. ii.
 Allis, E. P. 1897 A, 1.
 1898 A.
 1898 B, 83.
 1903 A, 660.
 1903 B.
 Allis, E. P. 1905 A, 401.
 1907 A, 569.
 1909 A, 213.
 1914 A, 357.
 1915 A.
 1918 A, 241.
 1918 B, 258.
 1919 A, 353.

- Allis, E. P. 1919 B, 73.
 1919 C, 245.
 1919 D, 219.
 1919 E, 365, 366, 369.
 1922 B.
 1922 C, 13.
 1923 A, 41, 46.
 1923 B, 125, 163.
 1925 A, 76.
 1926 A, 169.
 Arltdt, T. 1907 D, 284.
 1923 A, 495 (Amia, Protamia, Hypamia).
 Baraldi, G. 1877 A, 12.
 Beer, G. R. 1924 A, 26, figs. 8-14, 16.
 1926 A, 289, 330, figs. 34-49, 107, 113, 131.
 Boas, J. E. V. 1914 B, 543.
 Braus, H. 1901 B, 217.
 Bridge, T. W. 1878 A, 712.
 1896 A, 537, pl. xxi.
 1904 A, 500, 730.
 Cockerell, T. D. A. 1908 A, 574.
 1911 B, 865.
 1913 B, 121, 122.
 Cockrell and Moor 1910 A, 252.
 Cunningham, J. T. 1912 A, 258, 309, 321, 495.
 Cuvier, G. 1815 A, 109.
 Day, H. 1915 A, 431.
 Dean, B. 1895 C, 734.
 1896 D, 338.
 Dean, Gudger, Henn 1923 A, 668 (Amia).
 Deecke, W. 1913 A, 71.
 Derjugin, K. 1909 A.
 1910 A, 629.
 Dollo, L. 1893 D, 3.
 Duméril, A. 1856 A, 490 ("amie").
 1870 A, 398, 416.
 Eastman, C. R. 1911 A, 18.
 1917 A, 282.
 Edgeworth, F. H. 1925 A, 240, figs. 26, 28.
 1926 A, 18, figs. 14-17.
 Egerton, P. G. 1852 C, 6 L, 2.
 Eimer, G. H. T. 1901 A, 61.
 Fitzinger, L. J. 1873 A, 51.
 Frost, G. A. 1913 A, 221.
 Gadow, H. 1896 A, 7, 22.
 Gaupp, E. 1898 B, 820.
 1901 B, 935.
 1905 D, 900.
 1906 B.
 1911 A, 420.
 Gegenbaur, C. 1867 B, 419, pl. viii, fig. 13; pl. ix, fig. 22.
 Giebel, C. G. 1855 A, 111.
 Goetsch, W. 1915 A, 435.
 Goodrich, E. S. 1904 A, 477.
 1908 A, 769.
 1908 B, 546.
 1909 A, 506, figs.
 Green, J. 1862 A, 218.
 Gregory, W. K. 1915 D, 326, fig. 4.
 1922 A, 9.
 Haller, B. 1906 A, 255.
 Hase, A. 1907 A.
 1913 A, 148, fig. 69.
 Hasse, C. 1893 C, 94, pl. vi, figs. 14, 15.
 Hasse and Schwarek 1870 A, 30.
 Hatschek, B. 1889 B, 115.
 Hay, O. P. 1897 A, 131.
 Heckel, J. J. 1850 A, 365.
 1850 B, 145.
 1851 A, 219.
 Heilprin, A. 1887 A, 68, 301.
 Hilgard, T. C. 1860 A, 679.
 Hubbs, C. L. 1919 B, 62.
 Huxley, T. H. 1861 D, 456.
 1863 F, 427.
 1876 E, 121.
 1883 B, 567, 570, fig. 2.
 Hyrtl, C. J. 1862 A, 97.
 Jordan, D. S. 1905 A, ii, 35, 556.
 1907 B, 262.
 1917 A, 23.
 Jordan and Evermann 1917 A, 23, 91.
 Jordan and Gilbert 1882 A, 94.
 Kehler, F. A. 1896 A, 350.
 Kesteven, H. L. 1922 A, 312.
 Kindred, J. E. 1919 A.
 Kingsley, J. S. 1885 A, 97.
 1925 A, 222, figs. 233, 249.
 Klaatsch, H. 1890 A, 179.
 1893 B, 667.
 Kryzanovsky, S. 1916 A, 237.
 Lakjer, T. 1927 A, figs. 68, 81, 105.
 Leriche, M. 1900 A, 183.
 1906 C, 411.
 Leunis and Ludwig 1883 A, 775.
 Loey, W. A. 1894 A, 179.
 Lubosch, W. 1911 B, 741.
 Luther, A. 1913 B, 22, 58.
 Lütken, C. 1871 A, 293.
 McMurrich, J. P. 1883 A, 627.
 Matthes, E. 1921 A, 221.
 Mayhew, R. L. 1924 A, 317.
 Meek, A. 1916 A, 52.
 Miall, L. C. 1872 A, 29, 30.
 Moodie, R. L. 1908 G, 515, fig. 2.
 Newton, E. T. 1899 C, 1, pl. i.
 Norman, E. W. 1926 A.
 Owen, R. 1866 A, 37, 108.
 Parker and Bettany 1877 A, 85.
 Pehrson, T. 1922 A, 1-63.
 Priem, F. 1900 A, 842.
 1901 A, 488, 502.
 1908 B, 81, 90, 123, fig. 62.
 1911 C, 34, figs. 40-42.
 Rafinesque, C. S. 1815 A, 380 (Amiatus).
 Regan, C. T. 1912 B, 839.
 1923 B, 451, 455.
 Reynolds, S. H. 1897 A, 532.
 Ridewood, W. G. 1904 A, 56.
 1921 A, 329, 335.
 Romer, A. S. 1924 A, 123, 128, figs. 2, 3.
 Scharff, R. F. 1911 A, 163.
 Schauinsland, H. 1906 A, 437.
 Schlosser, M. 1917 A, 140, 142.
 Schmalhausen, J. J. 1912 A, 526, 560, pls. xv-xviii.
 1913 A, 5, 16.
 1923 B, 544.
 Schreiner, K. E. 1902 A, 467.
 Seupin, H. 1896 A, 175, pl. x, fig. 12.
 Sewertzoff, A. 1896 A, 240.
 1918 A, 207.
 1923 B, fig. 3.

- Sewertzoff, A. 1925 A, 274.
 1926 A.
 1926 C, 42.
 1926 D, 78, figs. 2, 3.
 Shepherd, C. E. 1910 B, 296.
 Stadtmüller, F. 1926 A, 161, fig. 7.
 Stannius, H. 1854 A.
 Starks, E. C. 1904 A, 260.
 1916 A, 13 (Amiatus).
 Steinmann, G. 1912 B, 726.
 Stensiö, E. A. 1921 A, 274.
 1922 A, 1265.
 1925 A, 22, 31.
 1925 B, 106, 162.
 Stephan, P. 1900 A, 293.
 Swinnerton, H. W. 1905 A, 373.
 Totton, A. K. 1914 A, 258.
 Traquair, R. H. 1900 C, 508.
 Uhlmann, E. 1921 A, 322.
 Van Wijhe, J. W. 1922 A, 293.
 Watson, D. M. S. 1925 A, 820, 824, 851, 860, 865, 867.
 Wegner, R. N. 1922 A, 482, text-fig. 40.
 White, C. A. 1885 A, 64.
 Whitehouse, R. H. 1910 B, 595.
 1910 C, 137.
 1918 A, 136.
 Wilder, B. 1876 A, 151, 166.
 Williston, S. W. 1925 A, 98.
 Woodward, A. S. 1902 C, 88.
 1906 C, 279.
 Zittel and Koken 1911 A, 117.
 Zittel and Schlosser 1923 A, 119.
 Zittel and Woodward 1902 A, 92.
- Amia calva** Linnæus.
Linnæus, C. 1766, Syst. Nat., ed. xii, 500.
 Allis, E. P. 1897 A, 1.
 1898 A, 425, pl. xxxiii.
 1898 B, 85.
 1905 A, 404.
 Baker, F. C. 1920 A, 453.
 Beer, G. R. 1924 C, 304, figs. 13-26.
 1926 A, 289.
 Cockerell, T. D. A. 1908 C, 163.
 1910 F, 1.
 1911 F, 369.
 1913 B, 122, fig. 1.
 Creaser, C. W. 1926 A, 18.
 Dean, B. 1914 A, 60 ("bowfin").
 Degener, L. M. 1924 A, 113, pls. i-viii; text-fig. 1.
 Duméril, A. 1870 A, 421.
 Franque, H. 1847 A, pl. i.
 Gaupp, E. 1901 B, 935, fig. 1.
 Goetsch, W. 1915 A, 452, pls. xviii, xix; text-fig. 3.
 1920 A, 12, 14, 438, 515, pl. i.
 Goodrich, E. S. 1901 A, 318, fig. H.
 1904 A, 477.
 Hague, F. 1924 A, 267, pls. i-iii.
 Hay, O. P. 1912 D, 552 ("bowfin").
 1917 E, 43 (Amiatus).
 1923 A, 336, 382 (Amiatus).
 Heronimus, C. 1911 A, 193, figs. 1-5.
 Höfer, B. 1899 A, 106, 118.
 Hyrtl, C. J. 1862 A, 97, pl. ii, fig. 3.
- Kingsley, J. S. 1885 A, 97.
 Meek, A. 1916 A, 52.
 Newton, E. T. 1899 C, 4.
 Norman, E. W. 1926 A, 409, figs. 43, 48, 50, 54.
 Nusbaum, J. 1908 A, 514.
 Parker and Haswell 1897 A, 204, fig. 826.
 Pehrson, T. 1922 A, 1-63, figs. 1-20.
 Priem, F. 1908 B, 81.
 Regan, C. T. 1923 B, 451, figs. 6-8.
 Romer and Fryxell 1928 A, 519.
 Schauhinsland, H. 1906 A, 436, figs. 235, 237-240, 242-250.
 Schmalhausen, J. J. 1913 C, pls. i-vi.
 Sewertzoff, A. N. 1925 A, 273, fig. 2.
 1926 A, 531.
 Shepherd, C. E. 1914 A, 262.
 Stephan, P. 1900 A, 360.
 Willey, A. 1920 A, 89.
 Woodward, A. S. 1895 A, 369, figs. 37-39.
 Zittel and Schlosser 1923 A, 119, figs. 22, 211, 212.
 Recent; Great Lakes to Texas and Florida:
 Pleistocene (Middle?); Florida: (Late); Illinois.
- Amia depressa** Marsh.
 Hay, O. P. 1902 A, 380.
 Cockerell, T. D. A. 1908 C, 163.
 Romer and Fryxell 1928 A, 526.
 Middle Eocene (Bridger); Wyoming.
- Amia dictyocephala** Cope.
 Hay, O. P. 1902 A, 380.
 Cockerell, T. D. A. 1906 A, 163.
 1908 C, 163.
 Hussakof, L. 1906 A, 60, fig. 29.
 Merrill, G. P. 1907 A, 6.
 Romer and Fryxell 1928 A, 526.
 Miocene (Florissant); Colorado.
- Amia elegans** (Leidy).
 Hay, O. P. 1902 A, 381.
 Cockerell, T. D. A. 1908 C, 163.
 Romer and Fryxell 1928 A, 524 (Hypamia).
 Middle Eocene (Bridger); Wyoming.
- Amia exilis** Lambe.
Lambe, L. M. 1908 A, 9, 12, pl. i, figs. 1-6.
 Oligocene (Cypress Hills); Saskatchewan.
- Amia gracilis** Leidy.
 Hay, O. P. 1902 A, 381.
 Cockerell, T. D. A. 1908 C, 163.
 Romer and Fryxell 1928 A, 527 (Protamia).
 Middle Eocene (Bridger); Wyoming.
- Amia macrospondyla** Cope.
 Hay, O. P. 1902 A, 381.
 Lambe, L. M. 1904 C, 27, 38, 43.
 1908 A, 9, 12.
 Romer and Fryxell 1918 A, 527.
 Oligocene (White River); Assiniboia.
- Amia media** Leidy.
 Hay, O. P. 1902 A, 381.
 Cockerell, T. D. A. 1908 C, 163.

Cope, E. D. 1884 O, 60, pl. iv, figs. 7-20 (Pappichthys).

Merrill, G. P. 1907 A, 6 [*Amia* (*Protamia*)]; 14 (Pappichthys).

Romer and Fryxell 1928 A, 527 (Protamia).
Middle Eocene (Bridger); Wyoming.

***Amia newberriana* Marsh.**

Hay, O. P. 1902 A, 381.

Cockerell, T. D. A. 1908 C, 163.

Romer and Fryxell 1928 A, 526.
Middle Eocene (Bridger); Wyoming.

***Amia scutata* Cope.**

Hay, O. P. 1902 A, 381.

Cockerell, T. D. A. 1908 C, 163.

Merrill, G. P. 1907 A, 6.

Romer and Fryxell 1928 A, 526.

Miocene (Florissant); Colorado.

***Amia uintaënsis* Leidy.**

Hay, O. P. 1902 A, 381.

Cockerell, T. D. A. 1908 C, 163.

Middle Eocene (Bridger); Wyoming.

***Amia whiteavesiana* Cope.**

Hay, O. P. 1902 A, 381.

Lambe, L. M. 1904 C, 27, 38, 43.

1908 A, 9, 12.

Romer and Fryxell 1928 A, 527 (*A. whitaees-*
iana).

Oligocene (White River); Assiniboia.

PAPPICHTHYS Cope. Type *P. plicatus* Cope.

Hay, O. P. 1902 A, 381.

Arlt, T. 1923 A, 495.

Jordan, D. S. 1905 A, ii, 36.

Leriehe, M. 1900 A, 185.

Newton, E. T. 1899 C, 1.

Priem, F. 1901 A, 488.

Romer and Fryxell 1928 A, 525 (Syn. of *Protamia*).

Schlosser, M. 1917 A, 144.

Seeley, H. G. 1886 A, 412.

Stromer, E. 1925 B, 361.

Zittel and Koken 1911 A, 117.

Zittel and Schlosser 1923 A, 120.

***Pappichthys corsoni* Cope.**

Hay, O. P. 1902 A, 381.

Merrill, G. P. 1907 A, 14 (*P. corsoni*, *P. sym-*
physis).

Romer and Fryxell 1928 A, 527 (*P. corsoni*, *P.*
symphysis).

Middle Eocene (Bridger); Wyoming.

***Pappichthys lævis* Cope.**

Hay, O. P. 1902 A, 381.

Hussakof, L. 1908 A, 86.

Merrill, G. P. 1907 A, 14.

Romer and Fryxell 1918 A, 525.

Middle Eocene (Bridger); Wyoming.

***Pappichthys plicatus* Cope.**

Hay, O. P. 1902 A, 381.

Hussakof, L. 1908 A, 86.

Merrill, G. P. 1907 A, 14.

Peterson, O. A. 1919 A, 41 (This species?).

Middle Eocene (Bridger); Wyoming; Upper
Eocene (Uinta); Utah.

***Pappichthys sclerops* Cope.**

Hay, O. P. 1902 A, 381.

Merrill, G. P. 1907 A, 14.

Romer and Fryxell 1928 A, 525.

Middle Eocene (Bridger); Wyoming.

***Pappichthys* sp. indet.**

Brown, B. 1907 A, 842. Upper Cretaceous
(Hell Creek); Montana.

Gilmore, C. W. 1924 D, 27. Upper Cretaceous
(Lance); Saskatchewan.

Hay, O. P. 1927 D, 266-268.

Lindgren and Drake 1904 A, 3 (This genus?).

Pleistocene (Idaho); Idaho.

Lucas, F. A. 1900 H, 99. Pleistocene? Idaho.

Merrill, G. P. 1907 A, 14. Eocene (Bridger);
Wyoming.

Russell, L. S. 1928 A, 107. Paleocene?; Al-
berta.

Sternberg, C. M. 1924 A, 68 (*Pappichthys*).
Upper Cretaceous (Lance); Saskatchewan.

PARAMIATUS Romer and Fryxell. Type *P. gurleyi* Romer and Fryxell.

Romer and Fryxell 1928 A, 519.

***Paramiatus gurleyi* Romer and Fryxell.**

Romer and Fryxell 1928 A, 519, figs. 1-3

Eocene (Green River); Wyoming.

STYLOMYLEDON Russell. Type *S. lacus* Russell.

Russell, L. S. 1928 A, 103.

1928 B, 264.

The systematic position of this genus is
uncertain.

***Stylomyleodon lacus* Russell.**

Russell, L. S. 1928 A, 103, figs. 1-4.

Paleocene (Paskapoo); Alberta.

***Stylomyleodon* sp. indet.**

Russell, L. S. 1928 A, 103. Upper Cretaceous
(Lance); Wyoming.

PLATACODON Marsh. Type *P. nanus* Marsh.

Hay, O. P. 1902 A, 565.

Gilmore, C. W. 1924 A, 68.

Palmer, T. S. 1904 A, 542, 887.

The relationships of this genus are very uncertain.

Platacodon nanus Marsh.

Hay, O. P. 1902 A, 565.

Ameghino, F. 1893 C, 81.

Bowen, C. F. 1915 A, 120.

Hatcher, J. B. 1901 A, 128, pl. i, figs. 5, 6.

Lull, R. S. 1915 D, 323, 345.

Russell, L. S. 1928 A, 106.

Upper Cretaceous (Lancee); Wyoming.

Platacodon sp. indet.

Gilmore, C. W. 1924 A, 68. Upper Cretaceous (Lancee); Saskatchewan.

1924 D, 27 (Platæodon). Upper Cretaceous (Lancee); Saskatchewan.

Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lancee); Saskatchewan.

Superorder TELEOSTEI Müller.

Müller, J. 1846 C.

Hay, O. P. 1902 A, 356 (Teleostomi, in part).

Abel, O. 1912 F, 300.

Aladyna, M. 1910 A, 239 ("téléostéens").

Allis, E. P. 1898 B, 83 ("teleosts").

1915 A.

1918 A, 241.

1918 B, 263.

1919 A, 372.

1922 A, 152.

1922 B.

1922 C, 3.

1923 A, 52.

1923 B.

1925 A, 75.

1926 A, 169.

Anthony, R. 1912 A ("téléostéens").

Arlt, T. 1907 D, 684.

1923 A, 495 ("teleostier").

Ayers, H. 1906 A, 77.

Baehr, W. B. 1906 A, 629 ("teleostier").

Baraldi, G. 1877 A, 28, 44.

Bardeleben, K. 1896 A, 113 ("teleostier").

1907 A, 36 ("teleostier").

Beer, G. R. 1927 A, 296, 330.

Belling, D. E. 1912 A, 46.

Bluntsehli, H. 1912 B, 382 ("teleostier").

Böker, H. 1927 A, 15 ("teleostier").

Boulenger, G. A. 1901 A, 261 ("teleostean fishes").

1901 D, 43.

1902 B, 295.

1904 A, 162.

1904 D, 541.

Brandt, J. F. 1865 A, 22.

Braus, H. 1906 A ("teleostier").

Bridge, T. W. 1878 A, 705.

1896 A, 544.

Brohl, E. 1909 A, 345, 360 ("teleostier").

Bronn, H. G. 1848 B, 1218.

1849 A, 812, seq.

1862 B, 380.

Carlet, G. 1878 A, 1 ("téléostéens").

Carter, J. T. 1905 A, 129.

Cartier, O. 1875 A, 69 ("teleostier").

Carus, V. 1875 A, 516.

Cockerell, T. D. A. 1911 F, 367 ("teleosts").

Collinge, W. E. 1895 B, 274.

1895 C, 888.

Cunningham, J. T. 1897 A, 492 ("teleosteans").

1912 A, 245, 246.

Dana, J. D. 1863 C, 343 ("teleosts").

Dean, Gudger, Henn 1923 A, 703.

Derjugin, K. 1909 A.

1910 A, 572 ("teleostier").

1910 B, 209 ("teleostier").

Derjugin and Rozhdestvensky 1912 A, 643 ("teleostier").

Dietz, P. A. 1914 A, 99.

1917 A, 79 ("teleostier").

Dollo, L. 1889 E, 153 ("téléostéens").

1892 D, 120 ("téléostéens").

1909 B, (135).

Dombrowski, B. A. 1925 A, 70, fig. 3.

Dornitzner, M. 1852 A, 62 ("teleostier").

Eastman, C. R. 1917 A, 244.

Ebner, V. 1896 A, 146 ("teleostier").

Eggeling, H. 1906 A, 105 ("teleostier").

Elliot, A. J. M. 1907 A, 648.

Emery, C. 1895 A, 224 ("téléostiens").

Fiebiger, J. 1905 A, 141 ("teleostier").

Frassetto, F. 1915 A.

Fulton, T. W. 1906 A, 48 ("teleostean fishes").

Fürbringer, K. 1903 A, 377 ("teleostier").

Fürbringer, M. 1904 A ("teleostier").

Gaupp, E. 1897 A, 543 ("teleosteer").

1898 B ("teleostier").

1901 B, 935 ("teleostier").

1903 A, 113 ("teleostier").

1905 D, 911 ("teleostier").

1905 E, 161 ("teleostier").

1906 B ("teleostier").

Gegenbaur, C. 1866 A, 123 ("teleostier").

1867 A, 60 ("teleostier").

1867 B, 377, 393 ("teleostier").

1871 B ("teleostier").

Gill, T. 1885 C, 98-298.

1905 A, 659.

1909 B, 838.

Goette, A. 1879 A, 117 ("teleostier").

1901 A, 557 ("teleostier").

Goetsch, W. 1915 A, 435 ("teleostier").

1920 A, 12 ("teleostier").

Goodrich, E. S. 1904 A, 471.

1906 A, 344 ("teleosts").

1922 A, 505 ("teleosts").

1924 A, 935.

Gregory, W. K. 1904 A, 62.

1907 D, 449, 466.

Haeckel, E. 1868 A, 441, 446.

1873 A, 512, 516.

1893 A, 242 ("teleostier").

Haller, B. 1906 A, 231 ("teleostier").

Hamburger, R. 1904 A, 75 ("teleostier").

- Hammarsten, O. D. 1911 A ("teleostier").
Harrison, R. G. 1893 A, 248 ("teleostier").
1894 A ("teleosts").
1895 A, 500 ("teleostier").
Hase, A. 1907 A, 607 ("teleosteer").
1913 A, 147.
Hasse, C. 1872 A, 419 ("teleostier").
1873 A, 603 ("teleostier").
1873 B, 614 ("teleostier").
Hasse and Schwarc 1870 A, 29, 44 ("teliostier").
Hatschek, B. 1889 B, 115.
Hawkes, O. A. M. 1905 A, 82 ("teleosts").
Heckel, J. 1850 B, 143 ("teleostier").
1851 A, 219 ("teleostier").
Hennig, E. 1920 B, 113 ("teleostier").
Hill, C. 1900 A, 426.
Hilzheimer, M. 1913 A, 471 ("teleostier").
Höfer, B. 1890 A, 106 ("teleostier").
Hoernes, R. 1886 A, 526.
Hubbs, C. L. 1919 A, 570.
1926 A, 73 ("teleosts").
Huxley, T. H. 1859 D, 420.
1859 H, 36.
1861 D, 449.
1863 F, 427.
1876 E, 103, 121.
1880 E, 471.
1883 B, 570.
Jacobshagen, E. 1920 A, 88 ("teleosteer").
Jaekel, O. 1903 F, 37, 46 ("teleostier").
1906 A, 16 ("teleostier").
1908 B, 469 ("teleostier").
1909 D, 719 ("teleostier").
1911 A, 87 (Teleostea).
Jordan, D. S. 1885 A, 98.
1907 B, 225, 761.
1909 A, 565 ("bony fishes").
1923 A, 116.
Keyes, C. A. 1922 A, pl. iii.
Kiaer, J. 1924 A, 95, 113.
Kingsley, J. S. 1894 A, 640 ("teleosts").
1900 A, 249 ("teleosts").
1912 B, 79, figs. 76-78.
1925 A, 12, 33, 105, 237 ("teleosts").
Klaatsch, H. 1890 A, 155, 182, 217 ("teleostier").
1893 B, 654 ("teleostier").
1893 C, 181.
Kolzoff, N. K. 1896 A, 514 ("teleostier").
Koschkaroff, D. N. 1906 A, 209 ("teleostier").
Laaser, P. 1903 A, 571 ("teleostier").
Lakjer, T. 1927 A, 278.
Leunis and Ludwig 1883 A, 657.
Lönnberg, E. 1901 A.
Lütken, C. 1868 C.
1871 A, 286 ("téléostéens").
McMurrich, J. P. 1883 A, 640.
Matthes, E. 1921 A, 226 ("teleostier").
Meek, A. 1916 A, 59.
Menmuir, W. H. 1902 A, 273.
Miall, L. C. 1872 A, 31 ("teleostean").
Müller, J. 1845 A, 129, 135.
Nauck, E. T. 1926 B, 69 ("teleostier").
Norman, E. W. 1926 A ("teleosts").
Nusbaum, J. 1907 A, 297 ("teleostier").
1908 A, 515 ("teleostier").
1908 B, 505 ("teliostier").
Oswald, F. 1909 A, 126.
Paget and Savage 1916 A, 258 ("teleostean fish").
Palacký, J. 1902 B, 141 ("teleosteer").
Parker, W. K. 1879 C, 341.
1881 C, 71.
1888 C, 399.
Parker and Haswell 1897 A, 204.
Pehrson, T. 1922 A ("teleosts").
Petronievics, B. 1919 A, 413 ("téléostéens").
Pompeckj, J. F. 1913 A, 1145.
Prince, E. E. 1887 A, 697 ("teleosteans").
Puceioni, N. 1908 A, 56.
Pychlau, W. 1908 A, 692 ("teleostier").
Rauther, M. 1913 A, 1100.
1919 A, 214 ("teleostier").
Regan, C. T. 1904 A, 330, 331, 346.
1909 A, 66 ("teleosteans").
1909 B, 75, 76.
1912 B, 841.
1923 B, 458 (Teleostei; Neopterygii in part).
Retterer, E. 1905 C, 246 ("téléostéens").
Reynolds, S. H. 1897 A, 105, 106, 126, 556.
Ridewood, W. G. 1894 A, 635.
1896 A, 389.
Röse, C. 1897 A, 60 ("teleostier").
Rohon, J. V. 1902 A, 25 ("teleostier").
Romer, A. S. 1924 A, 122, 138, figs. 1, 10.
Rosén, N. 1915 A, 1 ("teliostier").
1916 A, 24.
Ryder, J. 1885 E, 93 ("teleosts").
1886 A, 71.
Sabatier, A. 1898 A, 928 ("téléostéens").
Sagemehl, M. 1883 A ("teleostier").
1884 A ("teliostier").
Sauvage, H. E. 1872 A, 118 ("téléostéens").
Schauinsland, H. 1906 A, 456 ("teleostier").
Scheel, C. 1893 A, 1 ("teleostier").
Schleip, W. 1904 A, 335 ("teleostier").
Schlesinger, G. 1909 A, (147).
Schlosser, M. 1898 D, 120 ("teleostier").
1917 A, 137, 138 ("teleostier").
Schmalhausen, J. J. 1912 A, 542.
1916 C, 207 ("teleosts").
Schmid-Monnard, C. 1883 A, 97 ("teleostier").
Schöne, G. 1902 A, 1 ("teleostier").
Schuchert, C. 1915 A, 690.
Semon, R. 1898 A, 100 ("teleostier").
Sewertzoff, A. 1896 A, 242 ("teleostier").
1918 A, 207.
1925 A, 276.
1926 A, 481.
1926 C, 42.
1926 D, 83.
1926 F, 274.
Shann, E. W. 1919 A, 558.
Siebenroek, F. 1901 A, 105 ("teleostier").
Solger, B. 1880 A, 388.
Sonies, F. 1907 A, 405 ("teleostier").
Stadtmüller, F. 1926 A, 156, figs. 1, 2 ("teliostier").
Stannius, H. 1854 A, 4, seq.
Stensiö, E. A. 1921 A, 276.
1925 A, 51, 62, 119.
Stephan, P. 1898 A, 355 ("téléostéens").
Stöhr, P. 1882 A, 71 ("teliostier").

- Stromer, E. 1912 A, 32, 48.
 1917 A, 22.
 1925 B, 348, 350.
 Supino, F. 1904 A, 625.
 Swinnerton, H. H. 1905 A, 319, 321 ("teleosts").
 Swinnerton, H. W. 1905 A, 363 ("teleosts").
 Terra, P. 1911 A, 206.
 Tichomirow, A. 1885 A, 533 ("teleostier").
 Tims, H. W. 1905 A, 39, 58.
 Tomes, C. S. 1875 C, 362.
 1876 A, 257.
 Totton, A. K. 1914 A, 257 ("teleosts").
 Traquair, R. H. 1870 A, 166.
 1900 C, 508.
 Uhlmann, E. 1921 A.
 Ussow, S. 1900 A, 175 ("teleostier").
 Veit, O. 1907 A, 174 ("teleostier").
- Wallace, A. R. 1876 A, ii, 424.
 Walther, J. 1882 A, 82 ("teleostier").
 Watson, D. M. S. 1925 A, 851, 865.
 1926 A, 202 ("teleosts").
 Whitehouse, R. H. 1910 B, 590.
 1910 C, 135 ("teleosts").
 1918 A, 139 ("teleosts").
 Woodward, A. S. 1898 C, 257.
 1906 A, 314 ("teleosteans").
 1915 B, lxxiv ("teleostean fishes").
 1922 C, 96.
 Woodward, H. 1878 A, 22.
 Wright, W. 1909 A, 672 ("teleostean fishes").
 Zittel and Koken 1911 A, 117.
 Zittel and Schlosser 1923 A, 120.
 Zittel and Woodward 1902 A, 92.

Class OSTARIOPHYSI.

- Abel, O. 1919 A, pp. 56, 157.
 Allis, E. P. 1905 A, p. 420.
 Arldt, T. 1923 A, p. 505 ("ostariophysen").
 Boulenger, G. A. 1901 D, p. 129.
 1904 A, pp. 162, 165.
 1904 D, p. 573.
 1918 B, p. 199 ("ostariophysiens").
 Bridge and Haddon 1893 A, 65 (Ostariophyseæ).
 Chranilov, I. 1926 A, 49.
 Cope, E. D. 1891 N, 22 (Plectospondyli).
 Cunningham, J. T. 1912 A, 247.
 Dean, Gudger, Henn 1923 A, 693.
 Dietz, P. A. 1917 A, 84.
 Eigenmann, C. H. 1890 B, 10 (Ostariophysisæ).
 Frost, G. A. 1925 A, 553.
 Gaupp, E. 1898 B, 823, 865 ("ostariophysen").
 Gill, T. 1905 A, 659.
 1905 C, p. 617 ("ostariophysial fishes").
 Goodrich, E. S. 1909 A, 371 (Cypriniformes).
 Gregory, W. K. 1907 D, 449, 472.
 Hubbs, C. L. 1919 B, 61.
 Jaekel, O. 1911 A, 69, 90.
 Jordan, D. S. 1904 A, 598.
 1905 A, ii, 159, 584.
 1907 B, 265, 378, 763.
 1923 A, 134.
- Jordan and Evermann 1896 A, 114.
 Klaatsch, H. 1890 A, 185 ("ostariophyen").
 Meek, A. 1916 A, 168.
 Müller, J. 1846 C (Physostomi, in part).
 Norman, E. W. 1926 A, 405.
 Nusbaum, J. 1908 A, 514 ("ostariophysen").
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1909 B, 77.
 1911 F, 13.
 1911 G, 553.
 1912 B, 841, 843.
 1922 A, 203.
 1924 A, 175.
 Ridewood, W. G. 1904 B, 215.
 Sachs, M. M. 1912 A, 725.
 Sagemehl, M. 1884 A, 22, 25 ("ostariophysen").
 Schlesinger, G. 1909 A, (151).
 Sörensen, W. 1894 A, 112 (Ostariophyseæ).
 1895 A, 400 (Ostariophyseæ).
 Stromer, E. 1912 A, 34.
 Swinnerton, H. W. 1905 A, 378.
 Thilo, O. 1908 A, 788.
 Whitehouse, R. H. 1910 B, 598.
 Woodward, A. S. 1901 A, ix, 296.
 1922 C, 99.
 Zittel and Koken 1911 A, 119.

Suborder CHARACINIFORMES Regan.

- Regan, C. T. 1922 A, 203.
 Boulenger, G. A. 1904 D, 575 (Characinidæ).
 Gill, T. 1893 A, 131 (Heterognathi).
 1896 E, 205 ("heterognaths").
 Goodrich, E. S. 1909 A, 374 (Characinoidei).
 Gregory, W. K. 1907 D, 449 (Heterognathi).
- Jordan, D. S. 1905 A, ii, 161 (Heterognathi).
 1923 A, 134 (Heterognathi).
 Jordan and Evermann 1896 A, 329 (Heterognathi).
 Regan, C. T. 1911 F, 15 (Characiformes).
 Zittel and Schlosser 1923 A, 123 (Characinoidei).

Superfamily CHARACINOIDÆ, new form.

- Frost, G. A. 1925 A, 554 (Characiniformes). | Goodrich, E. S. 1909 A, 374 (Characinoidei).

CHARACINIDÆ Richardson.

- Richardson, J. 1856 A, 245.
 Abel, O. 1922 F, 77.
 Allis, E. P. 1909 A, 213.
 Arldt, T. 1907 D, 645.
 1923 A, 505 ("characiniden").
- Boulenger, G. A. 1901 D, 131, 132.
 1904 D, 575.
 1917 B, 330.
 1918 A, 195.
 1918 B, 197 ("characinides").

- Bridge and Haddon 1893 A, 65.
 Cockerell, T. D. A. 1923 E, 418.
 Cope, E. D. 1871 T, 454.
 1872 C, 332.
 Dean, Gudger, Henn 1923 A, 674.
 Gadow, H. 1913 A, 94.
 Gaupp, E. 1905 D, 913 ("characiniden").
 Gill, T. 1872 C, 16.
 1885 C, 132.
 1896 E, 205 (Characidæ, Characinidæ).
 Gregory, W. K. 1907 D, 473 ("characins").
 Günther, A. C. 1880 A, 606.
 1881 A, 692.
 Jordan, D. S. 1885 A, 125, 132.
 1923 A, 134.
 Jordan and Evermann 1896 A, 331.
 Jordan and Gilbert 1882 A, 254.
 Kesteven, H. L. 1926 B, 204.
 Kindred, J. E. 1919 A.
 Klein, E. F. 1879 A, 104.
 1881 A, 330.
 1884 A, 135, 138, 147, 153, 156, 199, 226,
 243, 246, 248.
 1885 A, 116, 130, 144, 164, 195, 199, 211.

ISCHYRHIZA Leidy.

- Hay, O. P. 1902 A, 398.
 Arldt, T. 1923 A, 517 (Ichthyorrhiza).
 Boulenger, G. A. 1918 A, 195.
 1918 B, 199.
 Eastman, C. R. 1901 B, 111.
 1904 E, 298 (Syn. of Onchosaurus).
 1904 H, 93.
 1917 A, 297.
 Fowler, H. W. 1911 A, 167.
 Jordan, D. S. 1919 B, 272 (Syn.? of Pachy-
 rhizodus).
 1923 A, 118.
 Priem, F. 1908 B, 62.

Ischyrrhiza mira Leidy.

- Hay, O. P. 1902 A, 398.
 Berry, E. W. 1916 A, 358, pl. ix, figs. 6-8.
 Boulenger, G. A. 1918 B, 199 (I. antiqua).
 Eastman, C. R. 1901 B, 111.
 1904 E, 298 (I. antiqua a syn.).
 1904 H, 93.

- Klein, E. F. 1886 A, 225, 260, 290.
 Kölliker, A. 1859 A, 665 (Characini).
 Loomis, F. B. 1921 A, 194 (Characidæ).
 Meek, A. 1916 A, 168.
 Norman, E. W. 1926 A.
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1911 F, 15 (Characidæ).
 1916 B, 546 (Characidæ).
 1922 A, 203.
 1924 A, 175.
 Reissner, E. 1859 B, 429 ("characinen").
 Sagemehl, M. 1884 A, 1-119 ("characiniden").
 Schelaputin, G. 1906 A, 97 ("characiniden").
 Shepherd, C. E. 1910 B, 296, pl. ii, fig. 7.
 1916 A, 178.
 Siebenrock, F. 1901 A.
 Sörensen, W. 1894 A, 111 (Characini).
 Stannius, H. 1854 A, 5, 25, 99 (Characini).
 Starks, E. C. 1926 A, 88.
 Stensiö, E. A. 1925 A, 36.
 Terra, P. 1911 A, 212.
 Woodward, A. S. 1901 A, 297.
 Wright, R. R. 1885 A, 108.
 Zittel and Schlosser 1923 A, 123.

Type *I. mira* Leidy.

- Eastman, C. R. 1917 A, 298, pl. xi, fig. 2.
 Fowler, H. W. 1911 A, 167, fig. 103.
 Gidley, J. W. 1911, in Veatch and Stephenson
 1911 A, 208, 215.
 1926 F, 192, pl. lxii, fig. 10.
 Hay, O. P. 1923 A, 363.
 Hussakof, L. 1908 A, 77.
 Priem, F. 1908 B, 62, fig. 25 (I. antiqua).
 Upper Cretaceous (Woodbury, etc.); New
 Jersey: (Ripley); Mississippi, Georgia, South
 Carolina, North Carolina: (Fox Hills); New
 Mexico: (Monmouth?); Maryland.

Ischyrrhiza? radiata Clark.

- Hay, O. P. 1902 A, 398.
 Clark and Miller 1912 A, 117, 118 (Xiphias?).
 Eastman, C. R. 1901 B, 112, pl. xii, fig. 8
 (Xiphias?).
 Woodward, A. S. 1901 A, 46, 614.
 Eocene (Pamunkey); Virginia: (Aquia);
 Maryland.

ERYTHRINOLEPIDÆ Cockerell.

- Cockerell, T. D. A. 1919 A, 182.

- Jordan, D. S. 1923 A, 119 (To Clupeoidæ).

ERYTHRINOLEPIS Cockerell.

- Cockerell, T. D. A. 1919 A, 182.

Type *E. mowriensis* Cockerell.**Erythrinolepiss chicaoensis** Cockerell.

- Cockerell, T. D. A. 1919 A, 182, pl. xxxvi, figs.
 1, 2.
 Upper Cretaceous (Chico); California.

Erythrinolepiss mowriensis Cockerell.

- Cockerell, T. D. A. 1919 A, 182, pl. xxxvi, figs.
 3-6.
 Upper Cretaceous (Mowry); Wyoming.

Suborder CYPRINIFORMES Goodrich.

- Goodrich, E. S. 1909 A, 371.
 Hay, O. P. 1902 A, 394 (Plectospondyli).
 Chranilov, I. 1926 A, 51.
 Cope, E. D. 1871 T, 452 (Plectospondyli).
 1872 C, 332 (Plectospondyli).
 Gill, T. 1861 B, 6 (Eventognathi).

- Gill, T. 1885 C, 125 (Eventognathi).
 1905 G, 196 ("eventognaths").
 Jordan, D. S. 1885 A, 125 (Eventognathi).
 1907 B, 382 (Plectospondyli).
 1923 A, 139 (Eventognathi).
 Lönnberg, E. 1902 A (Cyprinoidei).

- Regan, C. T. 1911 F, 13, 14 (Cyprinoidea).
 1911 G, 555 ("cyprinoids").
 1922 A, 203 (Cyprinoidea).

- Starks, E. C. 1904 C, 254 (Plectospondyli).
 Zittel and Schlosser 1923 A, 123.

Superfamily CYPRINOIDÆ, a term given superfamily significance.

- Boulenger, G. A. 1918 B, 199 ("cyprinides").
 Eigenmann, C. H. 1890 B, 10 (Eventognathi).
 Frost, G. A. 1925 A, 553 (Cyprinoidea).
 Gill, T. 1861 B, 6 (Eventognathi).
 1905 F ("eventognaths").
 Gregory, W. K. 1907 D, 450, 477 (Eventognathi).
 Jordan, D. S. 1905 A, ii, 162, 569 (Eventognathi).
 1907 B, 381, 764 (Eventognathi).
 Norman, E. W. 1926 A, 415 (Cyprinoidea).
 Regan, C. T. 1909 B, 77 (Cyprinoidei).
 1911 F, 26 (Cypriniformes).

CATOSTOMIDÆ Cope.

- Cope, E. D. 1872 C, 332.
 Hay, O. P. 1902 A, 394 (Catostominæ).
 Arltdt, T. 1907 D, 284, 285 (Catostominæ).
 1912 A, 716, 762 (Catostominæ).
 1923 A, 506 ("catastominen").
 Boulenger, G. A. 1904 D, 581 (Catostominæ).
 Chranilov, I. 1926 A, 49.
 Cockerell, T. D. A. 1913 B, 139.
 Cockerell and Allison 1909 A, 157.
 Edwards, L. F. 1926 A, 257 (Catastomidæ).
 Gill, T. 1861 B, 8 (Catastomoidæ).
 1875 B, 252 (Catastomidæ).
 Gill, T. 1885 C, 131.
 1905 G, 196 ("catostomids").
 Goodrich, E. S. 1909 A, 375 (Catostominæ).
 Jordan, D. S. 1885 A, 131.
 1905 A, ii, 171, 562.
 1907 B, 390.
 1923 A, 139.
 Meek, A. 1916 A, 173 (Catostominæ).
 Rauther, M. 1913 A, 1101 (Catostominæ).
 Regan, C. T. 1911 F, 27.
 1922 A, 205.
 Sagemehl, M. 1891 A ("catastomiden").

CATOSTOMUS Le Sueur. Type *Cyprinus catostomus* Forster.

- Hay, O. P. 1902 A, 394.
 Allis, E. P. 1909 A, 11.
 1919 C, 252.
 Arltdt, T. 1907 D, 284, 285.
 Chranilov, I. 1926 A, 49, figs. 1-3.
 Cockerell, T. D. A. 1910 B, 62.
 1911 F, 370.
 1913 B, 139.
 Cockerell and Allison 1909 A, 158, fig. 2.
 Duméril, A. 1856 A, 410 ("catostome").
 Edwards, L. F. 1926 A, 257, figs. 1-6 (Catastomus).
 Heilprin, A. 1887 A, 68.
 Hilgard, T. C. 1858 A, 89.
 1860 A, 679.
 Hyrtl, C. J. 1862 A, 101.
 Jordan, D. S. 1885 A, 132.
 Jordan and Evermann 1917 A, 96.
 Jordan and Gilbert 1882 A, 124.
 Regan, C. T. 1922 A, 206.
 Sagemehl, M. 1884 A, 7, 102.
 1891 A, 543, pls. xx, xxvii.
 Scharff, R. F. 1911 A, 89.
 Stannius, H. 1854 A (Catastomus).
 Woodward, A. S. 1901 A, 299.
Catostomus cristatus Cope.
 Hay, O. P. 1902 A, 394.
 1927 D, 265, 268.
 Hussakof, L. 1908 A, 65, fig. 33.
 Pleistocene (Idaho); Idaho.
Catostomus reddingi Cope.
 Cope, E. D. 1883 L, 160.
 Hussakof, L. 1908 A, 66, fig. 34.
 Pleistocene (Idaho); Idaho.
Catostomus shoshonensis Cope.
 Hay, O. P. 1902 A, 394.
 1927 D, 265, 268.
 Pleistocene (Idaho); Idaho.

CHASMISTES Jordan and Gilbert. Type *C. liorus* Jordan.

- Jordan, D. S. 1878, Bull. Hayden's Geol. Surv., iv, 417.
 Arltdt, T. 1923 A, 506.
 Cope, E. D. 1883 L, 148.
 Jordan, D. S. 1907 A, 140.
 1919 B, 396.
 Jordan and Evermann 1896 A, 182.
 Jordan and Gilbert 1882 A, 131.
Chasmistes batrachops (Cope).
 Hay, O. P. 1902 A, 394 (Catostomus).
 1927 D, 242 (Catostomus); 243 Chasmistes.
 Hussakof, L. 1908 A, 65, fig. 32 (Catostomus).
 Starks, E. C. 1907, in Jordan, D. S. 1907 A, 143, 144, fig. 33.
 Pleistocene (Fossil Lake); Oregon.
Chasmistes oregonus Starks.
 Starks, E. C. 1907, in Jordan, D. S. 1907 A, 141, 144, fig. 32.
 Hay, O. P. 1902 A, 394 (Catostomus labiatus, in part).
 Cope, E. D. 1883 L, 150 (Catostomus labiatus, not of Ayres).
 Hay, O. P. 1927 D, 243.
 Pleistocene (Fossil Lake), Oregon.

AMYZON Cope. Type *A. mentale* Cope.

- Hay, O. P. 1902 A, 395.
 Arldt, T. 1907 D, 285.
 1923 A, 506.
 Cockerell, T. D. A. 1906 A, 163.
 1908 C, 164.
 Eastman, C. R. 1917 A, 292.
 Regan, C. T. 1922 A, 206.
 Schlosser, M. 1917 A, 144.
 Woodward, A. S. 1901 A, 300.

Amyzon brevipinne Cope.

- Hay, O. P. 1902 A, 395.
 Eastman, C. R. 1917 A, 292, pl. xix, figs. 1, 2.
 Lambe, L. M. 1904 C, 30, 39, 44.
 1906 C, 151, pl. i, figs. 1, 2.
 1906 D, 174.
 1906 E, 137.
 Woodward, A. S. 1901 A, 300.
 Tertiary (Amyzon beds); British Columbia

Amyzon commune Cope.

- Hay, O. P. 1902 A, 395.
 Cockerell, T. D. A. 1908 C, 164.
 Lambe, L. M. 1906 C, 151, pl. i, fig. 3.
 1906 E, 137.
 Merrill, G. P. 1907 A, 6.

- Woodward, A. S. 1901 A, 300.
 Miocene (Florissant); Colorado.

Amyzon fusiforme Cope.

- Hay, O. P. 1902 A, 395.
 Cockerell, T. D. A. 1908 C, 164.
 Woodward, A. S. 1901 A, 300.
 Miocene (Florissant); Colorado.

Amyzon mentale Cope.

- Hay, O. P. 1902 A, 395.
 Cockerell, T. D. A. 1908 C, 164.
 Merrill, G. P. 1907 A, 6.
 Woodward, A. S. 1901 A, 300.
 Miocene (Florissant); Colorado.

Amyzon pandatum Cope.

- Hay, O. P. 1902 A, 395.
 Cockerell, T. D. A. 1908 C, 164.
 Woodward, A. S. 1901 A, 300.
 Miocene (Florissant); Colorado.

Amyzon sp. indet.

- Cockerell, T. D. A. 1914 A, 190.
 Miocene (Florissant); Colorado.

CYPRINIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 94, 113.
 Hay, O. P. 1902 A, 394.
 Abel, O. 1912 F, 518 ("cypriniden").
 1919 A, 49, fig. 23 (Cyprinus).
 1922 F, 77.
 Agassiz, L. 1836 A, 149.
 1838 A, 73 ("karpfen").
 1840 C, 110, pl. iv, fig. 7 (Cyprinus).
 1844 D, 139 ("cycloides").
 1845 C, 325 (Cyprini).
 Alessandrini, A. 1849 A, 375, pl. xxiii, figs. 1, 3 (Cyprinus).
 Allis, E. P. 1897 A, 13.
 1898 A, 436.
 1898 B, 95.
 1905 A, 401, 437.
 1909 A, 213.
 1913 A, 327.
 1918 A, 242.
 1922 B, 204.
 Anonymous 1821 A, 273 (Cyprinus).
 Arldt, T. 1907 D, 649.
 1912 A, 716, 762.
 1923 A, 506 ("cypriniden").
 Baehr, W. B. 1906 A, 629 (Cyprinus).
 Baudelot, E. 1873 A, 97, 206, pls. x, xi (Cyprinus).
 Belling, D. E. 1912 A, 60 ("cyprinoiden").
 Bonaparte, C. L. 1833 B, 1200.
 1838 B, 132.
 Boulenger, G. A. 1904 A, 166.
 1904 D, 581, 737.
 1917 B, 330.
 Bridge, T. W. 1878 A, 705 (Cyprinoidei).
 1896 A, 547.
 Bridge and Haddon 1893 A, 65-333.
 Bronn, H. G. 1849 A, 780 (Cyprinoidei).

- Carus, V. 1875 A, 564 (Cyprinoidei)
 Chranilov, I. 1925 A, 90.
 1926 A, 49.
 Cockerell, T. D. A. 1910 A, 475.
 1910 F, 1.
 1911 E, 213.
 1911 F, 371.
 1913 B, 128.
 Cockerell and Allison 1909 A, 157.
 Cockerell and Callaway 1909 A, 121.
 Cockerell and Moore 1910 A, 252.
 1910 B, 91 ("cyprinids").
 Collinge, W. E. 1895 B, 286.
 Cope, E. D. 1871 T, 454.
 Cunningham, J. T. 1912 A, 247.
 Cuvier, G. 1805 A ("carpes").
 1815 A, 110 ("cyprinus").
 Dean, Gudger, Henn 1923 A, 676.
 Demoll, R. 1921 A, 442, pls. xv, xvi ("karpfen").
 Derjugin, K. M. 1909 A (Cyprinoidea).
 Dormitzer, M. 1852 A, 62 ("cypriniden").
 Duméril, A. 1856 A, 404 ("cyprinoides").
 Ebner, V. 1896 A, 127 ("cyprinoiden").
 Eimer, G. H. T. 1901 A ("cyprinoiden").
 Fitzinger, L. J. 1873 A, 38 (Cyprini).
 Friedmann, E. 1897 A, 567, figs. 10-16 (Cyprinus).
 Frost, G. A. 1925 A, 556.
 Fryd, C. 1901 A, 35.
 Fulton, T. W. 1906 A, 77.
 Gadow, H. 1913 A, 94.
 Gatzinow, V. 1900 A, 86 ("cyprinoiden").
 Ganpp, E. 1901 B, 939 ("cyprinoiden").
 Geoffroy-St. Hilaire, E. F. 1807 B, 414 ("cyprins").
 1824 A, 140 ("cyprins").

- Geoffroy-St. Hilaire, E. F. 1824 B, 145 ("cyprins").
 1824 E, 100 (Cyprinus).
 1824 G, 439 (Cyprinus).
 Giebel, C. G. 1855 A, 107 ("cyprinoides").
 Gill, T. 1861 B, 7 ("cyprinoidæ").
 1865 E, 69 ("cyprinoids").
 1875 B, 254 ("cyprinoids").
 1885 C, 126.
 1905 C, 617 ("cyprinids").
 1905 G, 195 ("cyprinids").
 Goetsch, W. 1915 A, 459 (Cyprinus).
 1920 A, 10, 16 (Cyprinus).
 Goette, A. 1879 A, 127 ("cyprinoiden").
 1901 A, 533 ("cypriniden").
 Goodrich, E. S. 1909 A, 375, fig. 358.
 Gregory, W. K. 1907 D, 450.
 Haller, B. 1906 A, 254, pl. xvi, fig. 11 ("cyprinoiden").
 Hamburger, R. 1904 A, 79, 84, pl. ii (Cyprinus, Squalius).
 Hase, A. 1907 A ("cypriniden").
 Hasse, C. 1872 A, figs. (Cyprinus).
 1873 A, 583, figs. 1-6 ("cyprinoiden").
 Hasse and Schwarck 1870 A, 45 ("cyprinoiden").
 Heckel, J. 1836 A, 221 ("cyprinen").
 1850 A, 364 ("cypriniden").
 1850 B, 146 ("cypriniden").
 1851 A, 222 ("cypriniden").
 Heilprin, A. 1887 A, 68, 69.
 Hilgard, T. C. 1857 A, 679 ("cyprinoids").
 Hoernes, R. 1886 A, 531 (Cyprinoidei).
 Hoppe, R. 1894 A, 5 pl. i (Leuciscus).
 Hora, S. L. 1922 A, 1, figs. 1, 2 (Labeo).
 Hubbs, C. L. 1919 B, 65.
 1926 A, 58 ("cyprinids").
 Huxley, T. H. 1859 D, 401, fig. 6 ("carp").
 1859 H, 38.
 1863 F, 427 ("cyprinoids").
 Hyrtl, C. J. 1862 A, 95 ("cyprinoiden").
 Ihering, H. 1891 C, 24 ("cypriniden").
 1909 A, 289 ("cypriniden").
 Imms, A. D. 1904 A, 23.
 Jordan, D. S. 1885 A, 126.
 1905 A, ii, 163, 565.
 1907 B, 382.
 1923 A, 139.
 Jordan and Gilbert 1882 A, 144.
 Kesteven, H. L. 1922 A, 315.
 1926 B, 204.
 Kindred, J. E. 1919 A.
 Klaatsch, H. 1890 A, 158, 185 ("cyprinoiden").
 Klein, E. F. 1868 A ("cypriniden").
 1879 A, 70, 79, 109, 118, 123 (Cyprinoidei).
 1884 A, 135, 138, 147, 156, 164, 201, 246, 251.
 1885 A, 115, 130, 150, 164, 177, 199, 214, 247.
 1886 A, 226, 262, 293.
 Kner, R. 1861 A, 243 (Cyprinoidei).
 Köstlin, O. 1844 A ("cyprinoiden").
 Kolzoff, N. K. 1896 A, 19, figs. 8, 9.
 Lavocat, A. 1896 B, 194 ("carpes").
 Leunis and Ludwig 1883 A, 726.
 Mantell, G. A. 1844 A, 665 ("cyprinoids").
 McMurich, J. P. 1883 A, 629 ("cyprinoids").
 Meckel, J. F. 1825 A ("karpfen").
 Meek, A. 1916 A, 173.
 Mivart, St. G. 1871 B, 376 ("carp").
 Moodie, R. L. 1922 B, 320.
 Müller, J. 1841 B, cliii ("cyprinen").
 Norman, E. W. 1926 A.
 Nusbaum, J. 1881 A, 552.
 1908 A, 513 (Cyprinus).
 1908 B, 506 ("cyprinoiden").
 Owen, R. 1866 A, 10, 43.
 Palacký, J. 1902 B, 149 ("cypriniden").
 Pevsner, V. 1926 A, 303, figs. 1-6 (Carassius, Rutilus).
 Peyer, B. 1922 A, 496 (Cyprinus).
 Pychlau, W. 1908 A, 693 ("cyprinoiden").
 Rauther, M. 1913 A, 1101.
 Regan, C. T. 1911 F, 27.
 1922 A, 205.
 1924 A, 175.
 Reis, C. 1905 A, 222 ("cyprinoides").
 Reissner, E. 1859 B, 429 ("cyprinoiden").
 Ryder, J. 1886 A, 72 ("cyprinoids").
 Sabatier, A. 1896 A, 122 ("cyprinides").
 Sachs, M. M. 1912 A, 725 ("cyprinoiden").
 Sagemehl, M. 1883 A ("cypriniden").
 Schauinsland, H. 1906 A, 474 ("cyprinoiden").
 Scheel, C. 1893 A, 16 ("cyprinoiden").
 Schelaputin, G. 1906 A, 97 (Cyprinoidæ).
 Schlosser, M. 1917 A, 144 ("cypriniden").
 Schmalhausen, J. J. 1913 A, 12 ("cyprinen").
 Shepherd, C. E. 1910 A, 419.
 1910 B, 296, pl. i, fig. 16 (Cyprinus).
 1912 A, 201 (Cyprininæ).
 1916 A, 178.
 Siebenrock, F. 1901 A, 108.
 Sorensen, W. 1894 A, 114 (Cyprinoidei).
 1895 A, 401.
 Solger, B. 1880 A, 382 (Cyprinus).
 Stannius, H. 1849 A, 539 (Cyprinus).
 Starks, E. C. 1916 A, 20.
 Stensiö, E. A. 1925 A, 36.
 Stephan, P. 1898 A, 358 ("cyprinidés").
 1900 A, 296 ("cyprinidés").
 Storch, O. 1911 A, 201 ("goldfische").
 Stoss, H. 1921 A, 411, pl. xviii; text-figs. 1-12 ("cypriniden").
 Terra, P. 1911 A, 210.
 Thilo, O. 1908 A, 777, 788.
 Trouessart, E. L. 1906 A, 212.
 Uhlmann, E. 1921 A, 322 ("cypriniden").
 Vaillant, L. 1896 A, 275 ("cyprinoides").
 Wagner, R. 1843 A ("karpfen").
 Wallace, A. R. 1876 A, ii, 451.
 Weber, E. H. 1821 A, 1061 (Cyprinus).
 Williamson, W. C. 1851 A, 650, pl. xxviii, fig. 9 ("carp").
 Woodward, A. S. 1901 A, 299.
 Zittel and Koken 1911 A, 122.
 Zittel and Schlosser 1923 A, 123.
 Zittel and Woodward 1902 A, 100.
- MYLOPHARODON Ayres. Type *M. robustus* Ayres.
 Ayres, W. O. 1855, Proc. Calif. Acad. Nat. Sci., 33.
 Arldt, T. 1923 A, 507.
 Cockerell, T. D. A. 1913 B, 130.
 Gill, T. 1865 E, 70.
 Jordan and Evermann 1896 A, 219.

Newberry, J. S. 1870 D, 28.

Mylopharodon conocephalus Baird and Girard.

Baird and Girard 1854, Proc. Acad. Nat. Sci. Phila., 134 (Gila).

Hay, O. P. 1927 D, 216.

Jordan, D. S. 1907 A, 131.

Jordan and Evermann 1896 A, pt. i, 219.

Miller, L. H. 1912 A, 71 (This species?).

Sinclair, W. J. 1904 A, 18 (This species?).

Pleistocene (Potter Creek Cave), California.

PTYCHOCHEILUS Agassiz. Type *P. gracilis* Agassiz = *Gila grandis* Ayres.

Agassiz, L. 1855, Amer. Jour. Sci. (2), xix, p. 227.

Cockerell, T. D. A. 1913 B, 131.

Jordan, D. S. 1885 A, 129, fig. 86.

Jordan and Evermann 1896 A, 224 (Type *P. gracilis*).

Jordan and Gilbert 1882 A, 225 (Type *P. oregonensis*).

Ptychocheilus grandis (Ayres).

Ayres, W. O. 1854, Proc. Acad. Nat. Sci. Calif., 18 (Gila).

Hay, O. P. 1927 D, 216.

Jordan, D. S. 1905 A, i, 164, fig. 125; ii, 169, fig. 13 (*P. grandis*).

Jordan and Evermann 1896 A, 224 (Syn. of *P. oregonensis*).

Jordan and Gilbert 1882 A, 226 (Type *P. oregonensis*).

Miller, L. H. 1912 A, 71 (This species?).

Sinclair, W. J. 1904 A, 18.

This species may be identical with *P. oregonensis*.

Recent; Rivers about San Francisco: Pleistocene; California.

Ptychocheilus tularis Jordan.

Jordan, D. S. 1927 B, 95.

Pleistocene?; California.

DIASTICHUS Cope. Type *D. macrodon* Cope.

Hay, O. P. 1902 A, 395.

Diastichus macrodon Cope.

Hay, O. P. 1902 A, 395.

1927 D, 265, 268.

Woodward, A. S. 1901 A, 322.

Pleistocene (Idaho); Idaho.

Diastichus parvidens Cope.

Hay, O. P. 1902 A, 395.

1927 D, 265, 268.

Woodward, A. S. 1901 A, 322.

Pleistocene (Idaho); Idaho.

Diastichus strangulatus Cope.

Hay, O. P. 1902 A, 395.

1927 D, 265, 268.

Hussakof, L. 1908 A, 70; pl. v, figs. 5, 6.

Woodward, A. S. 1901 A, 322.

Pleistocene (Idaho); Idaho.

APHELICHTHYS Cope. Type *A. lindahlII* Cope.

Hay, O. P. 1902 A, 395.

Aphelichthys lindahlII Cope.

Hay, O. P. 1902 A, 395.

Pliocene or Pleistocene; Illinois.

SIPHATELES Cope. Type *S. vittatus* Cope.

Cope, E. D. 1883 L, 146.

Hay, O. P. 1902 A, 395 (Rutilus).

Cockerell, T. D. A. 1909 C, 217 (Mylleucus). 1913 B, 130.

Cockerell and Allison 1909 A, 161 (Rutilus).

Jordan, D. S. 1910 B, 185 (Rutilus).

1910 C, 634 (Mylleucus).

1919 B, 361.

Jordan and Evermann 1917 A, 112 (Rutilus).

Jordan and Gilbert 1882 A, 244, 287 (Mylleucus).

Siphateles altarcus (Cope).

Hay, O. P. 1902 A, 395 (Rutilus).

Cope, E. D. 1878 II, 125 (Anchybopsis).

Hay, O. P. 1927 D, 242 (Leucus); 243 (Siphateles).

Pleistocene (Fossil Lake); Oregon.

Siphateles gibbarcus (Cope).

Hay, O. P. 1902 A, 395 (Rutilus).

Cope, E. D. 1878 C, 22 (Anchybopsis breviancus).

1878 II, 125 (Anchybopsis).

Hay, O. P. 1927 D, 242 (Mylleucus); 243 (Siphateles).

Pleistocene (Fossil Lake); Oregon.

Siphateles latus (Cope).

Hay, O. P. 1902 A, 395 (Rutilus).

1927 D, 268 (*S. latus*); 265 (Anchybopsis fasciolatus. This species?).

Russell, I. C. 1902 A, 56 ("Anchybopsis fasciolatus Cope." Nomen nudum).

Woodward, A. S. 1901 A, 322 (Leucus).

Pleistocene (Idaho); Idaho.

NOTROPIS Raf. Type *N. atherinoides* Raf.

Hay, O. P. 1902 A, 396.

Cockerell, T. D. A. 1909 B, 189 (Notropinae).

1913 B, 130.

Cockerell and Allison 1909 A, 158, fig. 3.

Cockerell and Callaway 1909 B, 189, 195.

Gill, T. 1907 C, pl. L, fig. 11.

- Hubbs, C. L. 1922 A, 360, figs. 1, 4, 5, 7.
1923 A, 208.
Jordan, D. S. 1885 A, 127.
1905 A, ii, 165.
Jordan and Evermann 1896 A, 254.

RICHARDSONIUS Girard. Type *Abramis balteatus* Baird and Girard.

Unless otherwise indicated the authors as quoted use the name *Leuciscus*.

- Girard, C. 1856, Proc. Acad. Nat. Sci. Phila., viii, 201 (Richardsonius).
Hay, O. P. 1902 A, 396.
Agassiz, L. 1836 A, 150.
Arlt, T. 1907 D, 285.
Bronn, H. G. 1848 A, 639.
Cockerell, T. D. A. 1909 C, 216 (Richardsonius).
1911 F, 371.
1913 B, 131 (Richardsonius).
Cockerell and Allison 1909 A, 157, 159.
Eimer, G. H. T. 1901 A, 259.
Fryd, C. 1901 A, 36.
Fuchs, H. 1912 D, 213.
Fulton, T. W. 1906 A, 77, pl. iiib.
Hase, A. 1907 A, 633.
Hubbs, C. L. 1926 A, 67.
Jordan, D. S. 1905 A, ii, 169, 579.
1907 B, 388.
1910 B, 185, 634 (Richardsonius).
1919 B, 270 (Richardsonius).
Jordan and Evermann 1896 A, 238 (Subg. of *Leuciscus*).
1917 A, 37, 99.
Jordan and Gilbert 1882 A, 251.
Lucas, F. A. 1900 G, 223.
Owen, R. 1845 B, 147, pl. lvii, fig. 4.
Palacký, J. 1902 B, 149.
Ridewood, W. G. 1904 A, 62.
Woodward, A. S. 1901 A, 305.

Richardsonius arciferus (Cope).

- Hay, O. P. 1902 A, 396 (*Leuciscus*).
1927 D, 265, 268.
Woodward, A. S. 1901 A, 323 (*Squalius*).
Pleistocene (Idaho); Idaho.

Richardsonius bairdii (Cope).

- Hay, O. P. 1902 A, 396 (*Leuciscus*).
1927 D, 265, 268.
Woodward, A. S. 1901 A, 323 (*Squalius*).
Pleistocene (Idaho); Idaho.

Notropis angustarcus (Cope).

- Hay, O. P. 1902 A, 396.
1927 D, 242 (*Cliola*).
Hussakof, L. 1908 A, 84, pl. v, figs. 3, 4.
Pleistocene (Lower); Oregon.

Richardsonius condonianus (Cope).

- Hay, O. P. 1902 A, 395 (*Rutilus*).
1927 D, 265, 268.
Hussakof, L. 1908 A, 96, pl. v, figs. 7, 8 (*Rutilus*).
Woodward, A. S. 1901 A, 322 (*Leucus*).
Pleistocene (Idaho); Idaho.

Richardsonius laminatus (Cope).

- Hay, O. P. 1902 A, 396 (*Leuciscus*).
1927 D, 268.
Woodward, A. S. 1901 A, 323 (*Squalius*).
Pleistocene (Idaho); Idaho.

Richardsonius posticus (Cope).

- Hay, O. P. 1902 A, 396 (*Leuciscus*).
1927 D, 265, 268.
Woodward, A. S. 1901 A, 323 (*Squalius*).
Pleistocene (Idaho); Idaho.

Richardsonius reddingi (Cope).

- Hay, O. P. 1902 A, 396 (*Leuciscus*).
1927 D, 265, 268.
Hussakof, L. 1908 A, 80, pl. v, figs. 1, 2 (*Leuciscus*).
Woodward, A. S. 1901 A, 323 (*Squalius*).
Pleistocene (Idaho); Idaho.

Richardsonius rosei (Hussakof).

- Hussakof, L. 1916 D, 18, fig. 1 (*Leuciscus*).
Miocene (Tranquille); British Columbia.

Richardsonius turneri (Lucas).

- Hay, O. P. 1902 A, 396 (*Leuciscus*).
Andreae, A. 1904 B, 461 (*Leuciscus*).
Blake, W. P. 1867 B, 306 ("fish." This species?).
Cockerell, T. D. A. 1914 A, 190.
Eastman, C. R. 1917 A, 292, pl. xviii, fig. 4 (*Leuciscus*).
Jordan, D. S. 1905 A, ii, 175 (*Leuciscus*).
Lucas, F. A. 1900 G, 223, pl. xxxi (*Leuciscus*).
Merrill, G. P. 1907 A, 13 (*Leuciscus*).
Sauvage, H. E. 1901 G, 81 (*Leuciscus*).
Woodward, A. S. 1901 A, 311 (*Leuciscus*).
Miocene (Esmeralda); Nevada.

MYLOCYPRINUS Leidy. Type *M. robustus* Leidy.

- Hay, O. P. 1902 A, 396.
Woodward, A. S. 1901 A, 323 (=Mylopharyngodon).

Mylocyprinus inflexus Cope.

- Hay, O. P. 1902 A, 396.
1927 D, 265, 268.
Hussakof, L. 1908 A, 82, pl. v, figs. 11, 12.
Woodward, A. S. 1901 A, 322.
Pleistocene (Idaho); Idaho.

Mylocyprinus robustus Leidy.

- Hay, O. P. 1902 A, 396.
1927 D, 104.
1927 D, 268 (*Siphateles r. robustus*; *S. r. longidens*; *S. r. kingi*).
Hussakof, L. 1908 A, 82, pl. v, figs. 9, 10.
Merrill, G. P. 1907 A, 13 (*M. robustus*, *M. kingii*).
Woodward, A. S. 1901 A, 322.
Pleistocene (Idaho); Idaho.

ALISODON Hay. Type *A. mirus*.

Hay, O. P. 1920 B, 132.

Alisodon mirus Hay.

Hay, O. P. 1920 B, 132; pl. ix, figs. 8, 9.

1924 D, 247.

Pleistocene; Texas.

COBITIDÆ Swainson.

Swainson, W. 1838 A, i, 231.

Allis, E. P. 1909 A, 213 (Cobitis).

Arlt, T. 1923 A, 507 ("cobitinen").

Bloch, L. 1916 A, 136 ("cobitiden").

Boulenger, G. A. 1904 D, 582 (Cobitidinae).

Chrnilov, I. 1925 A, 90, fig. 18.

1926 A, 49.

Cockerell, T. D. A. 1913 B, 140.

Cope, E. D. 1871 T, 454.

Dean, Gudger, Henn 1923 A, 364, 381, 612.

Frost, G. A. 1925 A, 559.

Geoffrey-St. Hilaire, E. F. 1824 G, 439 (Cobitis).

Gill, T. 1861 B, 7 (Cobitoidæ).

1885 C, 125.

1905 G, 196 ("cobitids").

Goodrich, E. S. 1909 A, 376 (Cobitidinae).

Günther, A. C. 1868 A, 344 (Cobitidina).

Jordan, D. S. 1885 A, 125.

1923 A, 144.

Klaatsch, H. 1890 A, 156, 169, pl. viii (Cobitis).

Klein, E. F. 1881 A, 325 (Cobitis).

1885 A, 177.

1886 A, 262, 263.

Meck, A. 1916 A, 176 (Cobitidinae).

Owen, R. 1848 B, 92, 98, pl. i, fig. 7 (Cobitis).

Rauther, M. 1913 A, 1101 (Cobitidinae).

Regan, C. T. 1911 F, 30.

1922 A, 205.

Sagemehl, M. 1891 A ("cobitiden").

Schelaputin, G. 1906 A, 97.

Sørensen, W. 1894 A, 111 (Cobitini).

COBITIS Linnæus. Type *Cobitis tania* Linn.

Linnæus, C. 1858 A, 303.

Allis, E. P. 1909 A, 213.

Arlt, T. 1923 A, 507.

Bloch, L. 1916 A, 136, pls. v, vi.

Chrnilov, I. 1925 A, 90, figs. 3, 5, 6, 15, 16.

Dean, Gudger, Henn 1923 A, 675.

Günther, A. C. 1868 A, 362.

Hasse, C. 1873 A, 585, figs. 7, 8.

Jordan, D. S. 1885 A, 126, fig. 83.

Jordan and Evermann 1917 A, 14.

Owen, R. 1848 B, 92, 98, pl. i.

Reissner, E. 1859 B, 430.

Sagemehl, M. 1891 A.

Stannius, H. 1854 A, 64.

Woodward, A. S. 1901 A, 320.

Zittel, K. A. 1890 A, 284.

Cobitis sp. indet.

Cope, E. D. 1883 L, 161 (This genus?). Pleistocene (Idaho); Idaho.

Hay, O. P. 1927 D, 265, 268. Pleistocene (Idaho); Idaho.

Suborder SILURIFORMES, new name.

Unless otherwise indicated, the authors, as cited, use the name Nematognathi.

Hay, O. P. 1902 A, 381.

Agassiz, L. 1844 D, 139 ("cycloïdes").

1844 E, 332 ("cycloïdes").

1868 A, 354 ("siluroïdes").

Bridge, T. W. 1878 A, 705 (Siluroidei).

Cope, E. D. 1871 T, 452, 453.

1891 N, 22.

Dean, Gudger, Henn 1923 A, 637.

Eigenmann, C. H. 1890 B, 10.

Fitzinger, L. J. 1873 A, 44 (Siluri).

Gill, T. 1885 C, 110.

Goetsch, W. 1920 A, 501 ("siluroïden").

Gregory, W. K. 1907 D, 450, 475.

Huxley, T. H. 1858 D, 520 (Siluroidei).

Jordan, D. S. 1885 A, 110 (Nematognathi).

1903 A, 136.

1905 A, ii, 177, 582.

1907 B, 396, 764.

1923 A, 145.

Jordan and Gilbert 1882 A, 95.

Lönnberg, E. 1902 A (Siluroidei).

Regan, C. T. 1909 B, 77 (Siluroidei).

1911 F, 14 (Siluroidea).

1911 G, 553 ("siluroïdes").

1922 A, 203 (Siluroidea).

Starks, E. C. 1904 C, 254 (Nematognathi).

1926 A, 88.

Woodward, A. S. 1901 A, ix, 296 (Ostariophysi, in part).

Wright, R. R. 1885 A, 107.

Zittel and Schlosser 1923 A, 124 (Siluroidei).

Superfamily SILUROIDÆ, Sørensen.

Sørensen, W. 1894 A, 109.

Bassoli, G. G. 1906 A, 37, pl. i (otoliths).

Chrnilov, I. 1926 A, 49 (Siluroidei).

Gill, T. 1873 F, 11 (Siluroidea).

Norman, E. W. 1926 A, 414 (Siluroidea).

Peyer, B. 1922 A, 536 (Siluroidea).

Reissner, E. 1859 B, 421 ("siluroïden").

Sørensen, W. 1895 A, 205, 518.

1897 A, 172.

Steinmann, G. 1927 A, 80 ("siluroïden").

SILURIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 95, 114.
Hay, O. P. 1902 A, 382.
Abel, O. 1912 F, 565.
 1922 F.
Adloff, P. 1920 A, 175 ("welse").
Agassiz, L. 1835 B, 331.
 1836 A, 150.
 1844 D, 142 ("siluroïdes").
 1845 C, 325 (Siluri).
 1858 A, 9 ("catfish").
Aichel, O. 1919 A, 81 ("welse").
Allis, E. P. 1905 A, 420.
 1909 A, 214.
 1918 A, 242.
 1922 B, 244.
Arlt, T. 1907 D, 681.
 1912 A, 679.
 1923 A, 510 ("siluriden").
Baraldi, G. 1877 A, 44 (Siluri).
Belling, D. E. 1912 A, 60 ("siluroïden").
Bliss, R. 1875 A, 386 ("siluroïdes").
Bonaparte, C. L. 1833 B, 1200.
 1838 B, 131.
Boulenger, G. A. 1901 D, 131, 237.
 1902 B, 301.
 1904 A, 166.
 1904 D, 586, 756.
 1917 B, 329.
 1918 B, 199 ("silurides").
Brauer, A. 1914 A, 284.
Bridge, T. W. 1878 A, 705 ("siluroïdes").
 1896 A, 550.
Bridge and Haddon 1893 A, 65-333.
Carus, V. 1875 A, 556 (Siluroidei).
Collinge, W. E. 1895 B, 275.
Cope, E. D. 1871 T, 454.
Cunningham, J. T. 1912 A, 247, 258, 265.
Cuvier, G. 1805 A ("silures").
 1815 A, 113 ("silures").
Davis, J. W. 1880 C, 67 ("siluroïdes").
Dean, Gudger, Henn 1923 A, 701.
Duméril, A. 1856 A, 471 ("siluroïdes").
Eastman, C. R. 1912 B, 372.
 1917 A, 293.
Egerton, P. G. 1852 C, 6 L, 1 ("siluroïdes").
Eigenmann, C. H. 1890 B, 12.
Geoffroy-St. Hilaire, E. F. 1807 B, 426 ("silures").
 1824 A, 132 ("silures").
 1824 G, 439 (Silurus).
Gill, T. 1885 C, 115.
 1905 C, 617 ("silurids").
Goetsch, W. 1915 A, 461 ("siluriden").
Goodrich, E. S. 1904 A, 474 ("siluroïdes").
 1909 A, 379.
Günther, A. C. 1887 A, 67.
Hamburger, R. 1904 A, 75 ("siluroïden").
Heckel, J. 1850 B, 146 ("siluroïden").
Heilprin, A. 1887 A, 68, 80, 89.
Hoernes, R. 1886 A, 531 (Siluridei).
Hofer, B. 1890 A, 105 ("siluroïden").
Hoffmann, K. 1923 A, 113, fig. 1 (Silurus).
Huxley, T. H. 1859 H, 37 (Siluroidei).
 1863 F, 427 ("siluroïdes").
Hyrtil, C. J. 1862 A, 95 ("siluroïden").
Ihering, H. 1891 C, 26 ("siluriden").
Jaekel, O. 1904 A, 30 ("siluriden").
Jaquet, M. 1898 A, 101, 213, pls. i-xiii, xvi-xxii (Silurus).
 1899 A, 177, pls. xxxiv-xl.
Jordan, D. S. 1885 A, 112.
 1905 A, 11, 178, 592.
 1907 B, 397.
 1923 A, 147 (Siluridæ, Ameiuridæ).
Jordan and Gilbert 1882 A, 96.
Kindred, J. E. 1919 A.
 1924 A, 423 ("siluroïdes").
Klein, E. F. 1879 A, 123.
 1881 A, 330.
 1884 A, 133, 135, 137, 138, 146, 156, 160, 201, 202, 244, 246, 248.
 1885 A, 108, 121, 130, 142, 164, 192, 210.
 1886 A, 227, 264, 289.
Kner, R. 1861 A, 308 (Siluroidei).
Köstlin, O. 1844 A ("siluroïden").
Koschkaroff, D. N. 1906 A, 211.
Leunis and Ludwig 1883 A, 720.
Leriche, M. 1900 A, 179.
 1901 B, 165 ("siluridés").
Mayer, A. F. 1862 A, 108 (Silurus).
McMurrich, J. P. 1883 A, 629 ("siluroïdes").
Meckel, J. F. 1825 A ("siluren").
Meek, A. 1916 A, 169.
Müller, J. 1845 A, 96 ("siluroïden").
Neumayer, L. 1913 A, 251 ("siluriden").
Owen, R. 1845 B, 86 ("siluroïdes").
 1848 B, 151, pl. i (Silurus).
 1866 A, 193, 248.
Palacký, J. 1902 B, 141 ("siluriden").
Parker and Bettany 1877 A, 84 ("siluroïdes").
Peyer, B. 1919 A, 63 ("welse").
 1920 B, 107 ("welse").
 1922 A ("siluriden").
Priem, F. 1906 B, 277, figs. 46-48.
 1908 B, 99 ("siluridés").
Rauther, M. 1913 A, 1101.
Reed, H. D. 1924 A, 431 ("siluroïdes").
Regan, C. T. 1911 G, 560 (Siluridæ); 562 (Amiuridæ).
 1922 A, 203 (Siluridæ, Amiuridæ).
 1924 A, 175 ("siluroïdes").
Reis, C. 1905 A, 220 ("siluroïdes").
Reynolds, S. H. 1897 A, 105, 554 ("siluroïdes").
Richardson, J. 1836 A, 132 (Siluroidei).
Ridewood, W. G. 1904 B, 213 ("siluroïdes").
Sagemehl, M. 1883 A ("siluriden").
Scharff, R. F. 1911 A, 89 ("cat-fishes").
Schauinsland, H. 1906 A, 474 ("siluroïden").
Schelaputin, G. 1906 A, 85 (Clarias).
Schlösser, M. 1917 A, 142, 144 ("siluriden").
Shepherd, C. E. 1913 A, 140.
 1916 A, 178.
Siebenrock, F. 1901 A, 108.
Sörensen, W. 1895 A, 399 (Siluroidæ).
Starks, E. C. 1905 A, 755 (Silurus).
Stensiö, E. A. 1925 A, 36 (Siluroidæ).
Storms, R. 1891 A, 118 ("siluroïdes").
Stromer, E. 1925 B, 364.
Terra, P. 1911 A, 212.
Thilo, O. 1879 A, 12, pl. i (Pimelodus).
 1898 B, 89 ("siluroïden").
 1908 A, 777, 788.

Tomes, C. S. 1878 A, 41 ("siluroids").
 Uhlmann, E. 1921 A, 302, 333.
 Vaillant, L. 1896 A, 275 ("siluroïdes").
 Wagner, R. 1843 A (Silurus).
 Wallace, A. R. 1876 A, ii, 441.
 Weber, E. H. 1821 A, 1061 (Silurus).
 Whitehouse, R. H. 1910 B, 600.

Wiedersheim, R. 1880 C, 128 ("siluroiden").
 Woodward, A. S. 1901 A, x, 324.
 Wright, R. R. 1885 A, 107.
 Zittel and Koken 1911 A, 123.
 Zittel and Schlosser 1923 A, 124.
 Zittel and Woodward 1902 A, 101.

RHINEASTES Cope. Type *R. peltatus* Cope.

Hay, O. P. 1902 A, 382.
 Arldt, T. 1923 A, 512 (Rhineaster).
 Cockerell, T. D. A. 1908 C, 163.
 Dall and Harris 1892 A, 289.
 Eastman, C. R. 1917 A, 294.
 Jordan, D. S. 1923 A, 146 (To Ariidae).
 Leriche, M. 1901 B, 170.
 Matthew, W. D. 1915 A, 298.
 Regan, C. T. 1922 A, 206.
 Seeley, H. G. 1886 A, 412.
 Woodward, A. S. 1901 A, 329.
 Zittel and Schlosser 1923 A, 124 (Rhineastes, Astephus).

Rhineastes arcuatus Cope.

Hay, O. P. 1902 A, 382.
 Cockerell, T. D. A. 1908 C, 163.
 Merrill, G. P. 1907 A, 16 (Pimelodus antiquus);
 17 (*R. arcuatus*).
 Woodward, A. S. 1901 A, 329.
 Middle Eocene (Bridger); Wyoming.

Rhineastes calvus Cope.

Hay, O. P. 1902 A, 382.
 Cockerell, T. D. A. 1908 C, 163.
 Cope, E. D. 1874 B, 441.
 Merrill, G. P. 1907 A, 17.
 Regan, C. T. 1922 A, 206.
 Woodward, A. S. 1901 A, 329.
 Middle Eocene (Bridger); Wyoming.

Rhineastes pectinatus Cope.

Hay, O. P. 1902 A, 382.
 Cockerell, T. D. A. 1906 A, 163.
 1908 C, 163.
 Merrill, G. P. 1907 A, 17.
 Regan, C. T. 1922 A, 206.

Woodward, A. S. 1901 A, 329.
 Miocene (Florissant); Colorado.

Rhineastes peltatus Cope.

Hay, O. P. 1902 A, 382.
 Cockerell, T. D. A. 1908 C, 163.
 Jordan, D. S. 1905 A, ii, 186.
 1907 B, 405.
 Merrill, G. P. 1907 A, 17.
 Woodward, A. S. 1901 A, 329.
 Middle Eocene (Bridger); Wyoming.

Rhineastes radulus Cope.

Hay, O. P. 1902 A, 382.
 Cockerell, T. D. A. 1908 C, 163.
 Merrill, G. P. 1907 A, 18.
 Woodward, A. S. 1901 A, 330 (*Rhineastes?*).
 Middle Eocene (Bridger); Wyoming.

Rhineastes rhæas Cope.

Hay, O. P. 1902 A, 382.
 Lambe, L. M. 1904 C, 27, 38, 44.
 1908 A, 9, 14, pl. i, figs. 10-16.
 Woodward, A. S. 1901 A, 329 (*Rhineastes?*).
 Oligocene; Assiniboia.

Rhineastes smithii Cope.

Hay, O. P. 1902 A, 382.
 Cockerell, T. D. A. 1908 C, 163.
 Merrill, G. P. 1907 A, 18.
 Woodward, A. S. 1901 A, 330.
 Middle Eocene (Bridger); Wyoming.

Rhineastes sp. indet.

Bowen, C. F. 1915 A, 118. Upper Cretaceous
 (Hell Creek); Montana.
 Brown, B. 1907 A, 842. Upper Cretaceous (Hell
 Creek); Montana.

AMEIURUS Rafinesque. Type *Pimelodus cupreus* Raf. = *A. natalis* Le Sueur.

Unless otherwise indicated, the authors, as quoted, use the name *Amiurus*.

Hay, O. P. 1902 A, 382 (*Ameiurus*).
 Allis, E. P. 1897 A, 15.
 1898 A, 428.
 1905 A, 402, 420 (*Ameiurus*).
 1909 A, 213 (*Ameiurus*).
 1915 A, 556 (*Ameiurus*).
 1918 A, 242 (*Ameiurus*).
 1919 C, 254 (*Ameiurus*).
 1922 A, 153.
 1922 B, 197.
 1923 A, 43.
 Arldt, T. 1907 D, 96.
 1923 A, 512.
 Braus, H. 1906 A, 184.
 Bridge, T. W. 1896 A, 553.
 1904 A, 730.
 Bridge and Haddon 1893 A, 81, 112, 275, 289.

Collinge, W. E. 1895 B, 278, pl. xvii, figs. 2, 3.
 Dall and Harris 1892 A, 289.
 Dean, Gudger, Henn 1923 A, 668.
 Duméril, A. 1856 A, 486 ("pimélode").
 Eastman, C. R. 1917 A, 293 (*Ameiurus*).
 Gill, T. 1885 C, 117.
 Goodrich, E. S. 1909 A, 379.
 Günther, A. C. 1887 A, 68.
 Hague, F. 1924 A, 275 (*Amiurus*).
 Heilprin, A. 1887 A, 68.
 Hilgard, T. C. 1858 A, 91 (*Pimolodus*).
 Jordan, D. S. 1885 A, 116 (*Amiurus*).
 1905 A, ii, 180, 556 (*Ameiurus*).
 1907 B, 399 (*Ameiurus*).
 Jordan and Evermann 1917 A, 112 (*Ameiurus*).
 Jordan and Gilbert 1882 A, 102.
 Kindred, J. E. 1919 A, 1-104, pls. i-viii.
 Kingsley, J. S. 1925 A, 91, 94, 95, 111, figs. 96,
 99-101, 116, 251.

- Kolzoff, N. K. 1896 A, 519.
 Leriche, M. 1901 B, 170, 171.
 Meek, A. 1916 A, 170, 171.
 Moodie, R. L. 1915 J, 326.
 1922 B, 322, fig. 2.
 Norman, E. W. 1926 A, 402, fig. 50.
 Peyer, B. 1922 A, 495, fig. 30.
 Reed, H. D. 1924 A, 431, fig. 1.
 Regan, C. T. 1922 A, 207.
 Reis, C. 1905 A, 224, pl. vi.
 Ryder, J. 1886 A, 73, 80.
 Scharff, R. F. 1911 A, 89 (Ameiurus).
 Schmalhausen, J. J. 1912 A, 549.
 Starks, E. C. 1916 A, 21.
 Wallace, A. R. 1876 A, ii, 442.
 Woodward, A. S. 1901 A, 328.
 Wright, R. R. 1885 A, 107, 110.

Ameiurus cancellatus Cope.

- Hay, O. P. 1902 A, 383.
 Lambe, L. M. 1904 C, 27, 38, 44 (Amiurus).
 1908 A, 9, 15 (Amiurus).
 Woodward, A. S. 1901 A, 328 (Amiurus).
 Oligocene (White River): Assiniboia.

Ameiurus? decorus Hay.

- Hay, O. P. 1924 A, 1, pl. i, fig. 1.
 Upper Miocene (Fleming); Texas.

Ameiurus maconnellii Cope.

- Hay, O. P. 1902 A, 383.
 Lambe, L. M. 1904 C, 27, 44 (Amiurus).
 1908 A, 9, 16 (Amiurus).
 Oligocene (White River): Assiniboia.

Ameiurus nebulosus (Le Sueur).

- Le Sueur, C. A. 1819, Mem. Mus., v, 149 (Pimelodus).
 Hay, O. P. 1923 A, 311.
 Jordan and Evermann 1896 A, 140.
 Leidy, J. 1889 H, 19 (Amiurus atrarius).
 Recent; Eastern United States: Pleistocene; Pennsylvania.

Ameiurus primævus Eastman.

- Eastman, C. R. 1917 A, 293. Origin uncertain; probably from Eocene (Green River); Wyoming.

Ameiurus sp. indet.

- Cope, E. D. 1883 L, 161. Pleistocene (Idaho); Idaho.
 Hay, O. P. 1927 D, 265, 268.
 Matthew, W. D. 1918 A, 188. Pliocene (Snake Creek); Nebraska.
 1924 C, 68 (This genus?). Upper and Middle Miocene (Lower Snake Creek and Sheep Creek); Nebraska.

Order ANGUILLOMORPHI, new name.

Unless otherwise indicated, the writers, as cited, employ for this order the name *Apodes*.

- Arlt, T. 1923 A, 514 ("apoden").
 Bonaparte, C. L. 1831 A, 96.
 Boulenger, G. A. 1904 A, 162, 167.
 1904 D, 599.
 Cockerell, T. D. A. 1913 B, 126 (Enehelecephali).
 Cope, E. D. 1872 C, 334 (Enehelecephali).
 Cunningham, J. T. 1912 A, 167 (Apoda).
 Cuvier, G. 1814 A, 76 ("anguilles").
 Dean, Gudger, Henn 1923 A, 669.
 Dietz, P. A. 1917 A, 84.
 Gill, T. 1872 C, 19.
 1885 C, 100.
 1909 B, 836.
 1909 C, 789.
 1910 C, 789.
 Goodrich, E. S. 1909 A, 397, 403 (Anguilliformes).
 Gregory, W. K. 1907 D, 450, 478.
 Hasse and Schwarck 1870 A, 30 ("aale").
 Jordan, D. S. 1885 A, 100.

- Jordan, D. S. 1905 A, I, 611; II, 139.
 1907 B.
 1923 A, 129.
 Jordan and Evermann 1896 A, 344.
 Kesteven, H. L. 1926 A, 133.
 Kner, R. 1861 A, 233.
 Linnæus, C. 1758 A, 242, 244.
 Meek, A. 1916 A, 148.
 Moodie, R. L. 1909 D, 243 (Apoda).
 Owen, R. 1866 A, 40.
 Popta, Canna M.-L. 1904 A, 367 (Murænidæ).
 Rauther, M. 1913 A, 1101.
 Regan, C. T. 1909 B, 78 (Anguiloidei); 83 (Apodes).
 1912 B, 839, 841, 843.
 1912 D, 377.
 Stannius, H. 1854 A.
 Woodward, A. S. 1898 A, 119.
 1901 A, 336.
 Zittel and Koken 1911 A, 119.
 Zittel and Schlosser 1923 A, 133 (Anguilliformes).

Suborder ARCHENCHELI Jordan.

- Jordan, D. S. 1905 A, ii, 141.
 Goodrich, E. S. 1909 A, 404.
 Gregory, W. K. 1907 D, 481.
 Jordan, D. S. 1905 A, ii, 141.

- Jordan, D. S. 1907 B, 364.
 1923 A, 139.
 Norman, E. W. 1926 A, 369-464, fig. 1 (Anguilla).

ANGUILLAVIDÆ Hay.

- Hay, O. P. 1903 I, 436.
 Gregory, W. K. 1907 D, 480.
 Jordan, D. S. 1923 A, 130.

- Regan, C. T. 1909 B, 83.
 1912 D, 379, 380 (Urenchelidæ).

ANGUILLAVUS Hay. Type *A. quadripinnis* Hay.

Hay, O. P. 1903 I, 437.

Arlt, T. 1923 A, 514.

Regan, C. T. 1912 D, 380.

Anguillavus hackberryensis Martin.

Martin, H. T. 1822 A, 95.

Cretaceous (Niobrara); Kansas.

A fish of doubtful relationship and not well illustrated.

Suborder COLOCEPHALI Cope.

Cope, E. D. 1871 T, 452, 456.

1872 C, 328, 334.

1891 N, 23.

Gill, T. 1872 C, 20.

1885 C, 101.

Goodrich, E. S. 1909 A, 407.

Gregory, W. K. 1907 D, 481.

Jordan, D. S. 1885 A, 101.

1905 A, II, 152.

1907 B, 371.

1921 A, 352.

1923 A, 133, 157.

Jordan and Evermann 1896 A, 346, 388.

Jordan and Gilbert 1882 A, 354.

MURÆNIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 96, 118.

Allis, E. P. 1907 A, 572.

1909 A, 214.

Arlt, T. 1907 D, 666.

Boulenger, G. A. 1904 A, 161.

1904 D, 604.

Cope, E. D. 1871 T, 456.

1872 C, 335.

1891 N, 23.

Dean, Gudger, Henn 1923 A, 690.

Faceiola, L. 1901 A, 41 ("murenoidi").

Gill, T. 1872 C, 20.

1885 C, 107.

1890 B, 157.

1890 C, 165.

Goodrich, E. S. 1909 A, 408.

Gregory, W. K. 1907 D, 481.

Günther, A. C. 1870 A, 19.

1880 A, 669.

Hasse and Schwarck 1870 A, 46 (Muræna).

Huxley, T. H. 1859 D (Muræna).

Jordan, D. S. 1885 A, 107.

1905 A, II, 152.

1907 B, 371.

1921 A, 252.

1923 A, 133.

Jordan and Evermann 1896 A, 346, 388.

Jordan and Gilbert 1882 A, 355.

Kesteven, H. L. 1926 A, 133.

Klein, E. F. 1879 A, 69, 113 (Muræna).

1884 A.

1885 A.

1886 A.

Kner, R. 1861 A, 233 (Murænoidei).

Owen, R. 1845 B, 164, pl. lvi, figs. 4, 5 (Muræna).

1848 B, 91, 108.

Popta, C. M. L. 1904 A, 367, figs.

Porta, A. 1905 A, 236 (Murænoidei).

Priem, F. 1914 B, 249 ("murænide," "otolithus").

Regan, C. T. 1912 D, 379.

Sagemohl, M. 1883 A ("murænen").

1884 A, 22 ("murænen").

Schlosser, M. 1917 A, 142, 147 ("murænen").

Stannius, H. 1854 A, 96 (Murænoidei).

Terra, P. 1911 A, 208.

Versluys, J. 1925 A, 166 ("murænen").

Woodward, A. S. 1901 A, 336.

Zittel, K. A. 1890 A, 285.

Zittel and Koken 1911 A, 127.

Zittel and Schlosser 1923 A, 133.

DEPRANDUS Jordan and J. Z. Gilbert. Type *D. lestes* Jordan and Gilbert.

Jordan and Gilbert, in Jordan, D. S. 1921 A, 252.

Jordan, D. S. 1923 A, 134.

Deprandus lestes Jordan and Gilbert.

Jordan and Gilbert, in Jordan, D. S. 1921 A, 252, pl. ix, fig. b; pl. xxx, fig. b.

Jordan, D. S. 1924 B, 49, pl. L.

Miocene (Monterey); California.

DERRHIIDÆ Jordan.

Jordan, D. S. 1925 B, 15.

DERRHIAS Jordan. Type *D. enantius* Jordan.

Jordan, D. S. 1925 B, 15.

The relationships of the genus *Derrhias* are regarded by Jordan as forming a distinct puzzle.

Derrhias enantius Jordan.

Jordan, D. S. 1925 B, 15, pls. v, vi.

Miocene (Monterey); California.

Order ISOSPONDYLI Cope.

- Hay, O. P. 1902 A, 383.
 Agassiz, L. 1835 I, 99 ("cycloidians").
 1840 C, 98 ("cycloïdes").
 1844 D, 139 ("cycloïdes").
 1844 E, 332 ("cycloids").
 1845 C, 323 ("cycloids").
 Boulenger, G. A. 1902 C, 389.
 1904 D, 543 (Malacopterygii).
 Cockerell, T. D. A. 1913 B, 122.
 Cope, E. D. 1871 T, 452.
 1891 N, 22, 23.
 Dean, Gudger, Henn 1923 A, 625.
 Dietz, P. A. 1917 A, 83 ("physostomen").
 Eastman, C. R. 1905 A, 56.
 1908 A, 64.
 1912 A, 228.
 Fowler, H. W. 1911 A, 151.
 Gill, T. 1885 C, 134.
 Goodrich, E. S. 1904 A, 494.
 1909 A, 386 (Clupeiformes).
 Gregory, W. K. 1907 D, 449, 467.
 1923 A, 238.
 Hubbs, C. L. 1919 B, 61, 63.
 Jordan, D. S. 1885 A, 134.
 Jordan, D. S. 1904 A, 598.
 1905 A, II, 37, 576.
 1907 B, 264, 265, 761.
 1923 A, 116.
 Jordan and Gilbert 1882 A, 256.
 Klein, E. F. 1884 A, 130, 135, 145, 156 (Physostomi).
 Müller, J. 1846 C, (Physostomi, in part).
 Parker and Haswell 1897 A, 204 (Physostomi, part).
 Regan, C. T. 1909 B, 77, 82.
 1923 B, 460.
 Ridewood, W. G. 1904 A, 57 ("isospondylous fishes").
 Schlesinger, G. 1909 A, (147, 151) (Isospondili).
 Starks, E. C. 1904 C, 254.
 Stensiö, E. A. 1925 A, 120.
 Traquair, R. H. 1900 C, 508.
 Woodward, A. S. 1901 A, vi, 1.
 1906 C, 281.
 1922 C, 94.
 Zittel and Koken 1911 A, 118 (Physostomi).
 Zittel and Schlosser 1923 A, 124 (Physostomi, in part).

Suborder CLUPEIFORMES Goodrich.

- Goodrich, E. S. 1909 A, 386.
 Jordan, D. S. 1923 A, 119 (Clupeioidei).
 Zittel and Schlosser 1923 A, 124.

Superfamily PHOLIDOPHOROIDÆ, new form.

- Gregory, W. K. 1923 A, 238 (Pholidophoroidea).
 Jordan, D. S. 1923 A, 116 (Pholidophoroidei).
 Regan, C. T. 1923 B, 459 (Halecostomi).

PHOLIDOPHORIDÆ Woodward.

- Woodward, A. S. 1890 D, 43.
 Hay, O. P. 1902 A, 383.
 Abel, O. 1906 C, 84.
 1919 A, 208.
 1922 A, 77.
 Arldt, T. 1923 A, 496 ("pholidophoriden").
 Boulenger, G. A. 1904 A, 163.
 1904 D, 545.
 Deecke, W. 1926 A, 188 ("pholidophoriden").
 Goodrich, E. S. 1904 A, 494.
 1909 A, 336.
 1913 A, 80.
 Gregory, W. K. 1923 A, 238, 241.
 Jordan, D. S. 1905 A, ii, 26, 586.
 1907 B, 761.
 Jordan, D. S. 1923 A, 116.
 Meek, A. 1916 A, 62.
 Priem, F. 1908 B ("pholidophoridés").
 Regan, C. T. 1910 A, 354.
 1923 B, 458.
 Schlosser, M. 1917 A, 135, 136, 138 ("pholidophoriden").
 Stensiö, E. A. 1925 A, 119 ("pholidophorids").
 Stolley, E. 1920 A, 76, 79.
 Traquair, R. H. 1900 C, 508.
 Vetter, B. 1881 A, 55 (Pholidophori).
 Woodward, A. S. 1915 B, lxxiv.
 Zittel and Koken 1911 A, 110.
 Zittel and Schlosser 1923 A, 111.
 Zittel and Woodward 1902 A, 84.

PHOLIDOPHORUS Agassiz. Type *P. macrocephalus* Agassiz.

- Hay, O. P. 1902 A, 383.
 Abel, O. 1919 A, 211, fig. 165.
 1921 A, 211, fig. 72.
 Agassiz, L. 1832 A, 145.
 1833 A, 475.
 1844 C, 265.
 Alessandri, G. 1910 A, 125.
 Arldt, T. 1923 A, 496.
 Bronn, H. G. 1848 B, 967.
 1849 A, 660.
 Cross, W. 1908 A, 107.
 Cross and Howe 1905 A, 486.
 Deecke, W. 1913 A, 80, 81.
 Eastman, C. R. 1917 A, 278.
 Egerton, P. G. 1852 C, 6 E, 1, pls. iv, v.
 1855 A, 8 E, 1, pls. iv, vii.
 Giebel, C. G. 1855 A, 113.
 Goodrich, E. S. 1908 A, 769.
 Heckel, J. J. 1850 A, 361, 365.
 Hussakof, L. 1916 C, 348.
 Jordan, D. S. 1905 A, II, 28, 586.
 Jordan and Evermann 1917 A, 140.
 Klaatsch, H. 1890 A, 144.
 Lütken, C. 1868 C.
 Meek, A. 1916 A, 63.
 Priem, F. 1908 B, 16, pl. i, fig. 3.

Priem, F. 1912 B, 251.
 Ridewood, W. G. 1904 A, 69.
 Scupin, H. 1896 A, 169, pl. x, fig. 4.
 Steinmann, G. 1907 A, 413.
 1927 A, 13.
 Stolley, E. 1920 A, 76.
 Stromer, E. 1925 B, 358.
 Traquair, R. H. 1911 A, 43.
 Vetter, B. 1881 A, 58-72.
 Winckler, T. C. 1871 B, 184.
 Woodward, A. S. 1891 G, 545.
 1897 E, 150, pl.
 1906 C, 280.

Woodward, A. S. 1919 A (1918), 101, pl. xx;
 text-fig. 34.
 Zittel and Koken 1911 A, 110.
 Zittel and Schlosser 1923 A, 111, figs. 191, 192.
 Zittel and Woodward 1902 A, 85.

Pholidophorus americanus Eastman.

Hay, O. P. 1902 A, 383.
 Gilmore, C. W. 1905 A, 80.
 Jordan, D. S. 1905 A, ii, 28.
 Merrill, G. P. 1907 A, 15.
 Sauvage, H. E. 1900 B, 116.
 Jurassic ("basal"); South Dakota.

LEPTOLEPIDÆ.

Arlt, T. 1923 A, 497 ("leptolepididen").
 Boulenger, G. A. 1904 A, 163.
 Bridge, T. W. 1904 A, 546.
 Cockerell, T. D. A. 1919 A, 173.
 Goodrich, E. S. 1909 A, 371.
 Jordan, D. S. 1905 A, ii, 41.
 1907 B, 268.
 1923 A, 117.

Nicholson and Lydekker 1889 A, 990 (Leptolepi-
 didæ).
 Woodward, A. S. 1895 A, 500.
 1898 B, 115.
 1915 B, lxxiv.
 Zittel and Broili 1911 A, 119.
 Zittel, Eastman, etc. 1902 A, 93.
 Zittel and Koken 1911 A, 119.
 Zittel and Schlosser 1923 A, 122.

THRISSOPS Agassiz. Type *T. formosus* Agassiz.

Agassiz, L. 1843 B (1833), ii, pt. 1, 12.
 Goodrich, E. S. 1909 A, 371.
 Jordan, D. S. 1905 A, ii, 42.
 Nicholson and Lydekker 1889 A, 990.
 Woodward, A. S. 1895 A, 521.
 1898 B, 116.
 Zittel, K. A. 1890 A, 272, figs. 280, 281.

Zittel, Eastman, etc. 1902 A, 94.
 Zittel and Koken 1911 A, 120, figs. 222, 223.
 Zittel and Schlosser 1923 A, 122, figs. 215, 216.

Thrissops sp. indet.

Felix, J. 1891 A, 194, pl. xxx, fig. 10. Lower
 Cretaceous (Neocomian); Mexico.

Superfamily ELOPOIDÆ, new form.

GANOLYTIDÆ Jordan.

Jordan, D. S. 1921 A, 241.

Jordan, D. S. 1923 A, 118.

ETRINGUS Jordan. Type *E. scintillans* Jordan.

Jordan, D. S. 1907 A, 121.
 Arltdt, T. 1923 A, 497.
 Hubbs, C. L. 1924 A, 177.
 Jordan, D. S. 1919 A, 5.
 1921 A, 241.

Jordan, D. S. 1919 A, 5, pl. i; pl. iii, fig. 1.
 1921 A, 241.
 Miocene? (Soledad); California.

Etringus sp. indet.

Jordan, D. S. 1907 A, 124. Miocene; California.

Etringus scintillans Jordan.

Jordan, D. S. 1907 A, 121, fig. 17 (not figs. 18,
 19).

GANOËSSUS Jordan. Type *Ganolytes clepsydra* Jordan and Gilbert.

Jordan, D. S. 1920 C, 571.
 1921 A, 241.

Ganoëssus clepsydra (Jordan and Gil-
 bert).

Jordan and Gilbert 1919 A, 23, pl. xi, fig. 1
 (Ganolytes).

Jordan, D. S. 1920 C, 571.
 1921 A, 241, pl. xvi.
 1925 B, 8, 49.
 Miocene (Monterey); California.

GANOLYTES Jordan. Type *G. cameo* Jordan.

Jordan, D. S. 1919 A, 5, 6.
 Hubbs, C. L. 1924 A, 178.
 Jordan, D. S. 1921 A, 241.

Ganolytes cameo Jordan.

Jordan, D. S. 1919 A, 5, 6, pl. ii, fig. 3; pl. iv,
 figs. 1, 2.
 Jordan, D. S. 1907 A, 121, figs. 18, 19
 (Etringus scintillans?).

Jordan, D. S. 1921 A, 241, pl. xv.
1925 B, 49.

Jordan and Gilbert 1919 A, 24.
Miocene? (Soledad); California.

PACHYRHIZODONTIDÆ Cope.

Hay, O. P. 1902 A, 387.
Boulenger, G. A. 1904 D, 569.
Fowler, H. W. 1911 A, 151 (Raphiosauridæ).

Jordan, D. S. 1905 A, ii, 44.
1907 B, 271, 761.
1923 A, 118 (Raphiosauridæ).

PACHYRHIZODUS Dixon. Type *P. basalis* Dixon.

Dixon, F. 1850, Geol. Sussex, 374.
Hay, O. P. 1902 A, 387.
Agassiz, L. 1843 B, (1835) iv, 35 (Megalodon, in part).
1843 B, (1837) Feuille, 104 (Hypsodon, in part).
Boulenger, G. A. 1904 D, 569.
Cockerell, T. D. A. 1919 A, 173, 174.
Cope, E. D. 1880 U, 147.
Dollo, L. 1892 F, 181.
Fowler, H. W. 1911 A, 152 (Syn. of *Raphiosaurus* Owen).
Hay, O. P. 1903 A, 29, 59.
Hennig, E. 1912 A, 490.
Jordan, D. S. 1919 B, 246.
1925 A, 219, 220.
Krause, P. G. 1901 A, 120.
Mason, J. W. 1869, Quart. Jour. Geol. Soc. Lond., xxv, 444 (*Acrodontosaurus*).
Owen, R. 1842 Trans. Geol. Soc. Lond. (2), vi, 413 (*Raphiosaurus*, type *R. subulidens* Owen = *Pachyrhizodus*?).
Schlosser, M. 1901 L, 480.
Storms, R. 1891 A, 151, 152.
Woodward, A. S. 1889 J, 351 (*Pachyrhizodus*, *Raphiosaurus*).
1898 B, 118.
1901 A, 8, 37.
1912 A (1907), 123, pls. xxv, xxvi; (1908), 129, pls. xxvii, xxviii; text-fig. 29.
Zittel and Koken 1911 A, 125.
Zittel and Schlosser 1923 A, 129.

Pachyrhizodus caninus Cope.

Hay, O. P. 1902 A, 387.
1903 A, 60, pl. iii, figs. 1, 2; text-figs. 44, 45.
Hussakof, L. 1908 A, 85.
Priem, F. 1908 B, 66.
Woodward, A. S. 1901 A, 44.
Zittel and Schlosser 1923 A, 129, fig. 226.
Upper Cretaceous (Niobrara); Kansas: Cretaceous; France.

Pachyrhizodus curvatus Loomis.

Hay, O. P. 1902 A, 388.
Woodward, A. S. 1901 A, 44.
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus kingii Cope.

Hay, O. P. 1902 A, 388.
Woodward, A. S. 1901 A, 42 (Syn. of *P. latimentum*).
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus latimentum Cope.

Hay, O. P. 1902 A, 388.
Woodward, A. S. 1901 A, 42.
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus leptognathus Stewart.

Hay, O. P. 1902 A, 388.
Woodward, A. S. 1901 A, 45.
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus leptopsis Cope.

Hay, O. P. 1902 A, 388.
1903 A, 64.
Hussakof, L. 1908 A, 85.
Woodward, A. S. 1901 A, 45.
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus minimus Stewart.

Hay, O. P. 1902 A, 388.
Sauvage, H. E. 1899 C, 150.
Schlosser, M. 1901 L, 480.
Woodward, A. S. 1901 A, 45.
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus velox Stewart.

Hay, O. P. 1902 A, 388.
Woodward, A. S. 1901 A, 45.
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus sp. indet.

Lambe, L. M. 1914 H, 402. Upper Cretaceous (Niobrara); Wyoming.

ORICARDINUS Cope. Type *O. tortus* Cope.

Hay, O. P. 1902 A, 388.
Hennig, E. 1912 A, 490.
Zittel and Koken 1911 A, 125.

Oricardinus sheareri Cope.

Hay, O. P. 1902 A, 388.
1903 A, 64, text-fig. 46.
Hussakof, L. 1908 A, 84.

Woodward, A. S. 1901 A, 45 (*Pachyrhizodus*).
Cretaceous (Niobrara); Kansas.

Oricardinus tortus Cope.

Hay, O. P. 1902 A, 388.
1903 A, 65, text-figs. 47, 48, 49?
Hussakof, L. 1908 A, 84.
Woodward, A. S. 1901 A, 46.
Cretaceous (Niobrara); Kansas.

CONOSAURUS Gibbes. Type *C. bowmani* Gibbes.

Hay, O. P. 1902 A, 388.

Fowler, H. W. 1911 A, 152.

Conosaurus bowmani Gibbes.

Hay, O. P. 1902 A, 388.

Fowler, H. W. 1911 A, 152, fig. 93.

Woodward, A. S. 1901 A, 612 (Conosaurops).

Upper Cretaceous (Greensand); South Carolina, New Jersey: Eocene?; South Carolina.

ELOPIDÆ Richardson.

Richardson, J. 1856 A, 251.

Arlt, T. 1912 A, 752.

1923 A, 497 ("elopiden").

Boulenger, G. A. 1901 D, 46.

1904 D, 544, 546.

Cockerell, T. D. A. 1913 B, 122.

1919 A, 173, 174.

Cope, E. D. 1871 T, 455.

Dean, Gudger, Henn 1923 A, 594, 625.

Gill, T. 1885 C, 137.

1905 F, 31.

Goodrich, E. S. 1909 A, 387.

Heckel, J. J. 1856 A, 250.

Jaekel, O. 1911 A, 89.

Jordan, D. S. 1885 A, 137.

1921 A, 242.

1923 A, 117.

Jordan and Evermann 1896 A, 407.

Jordan and Gilbert 1882 A, 260.

Moodie, R. L. 1911 G, 282.

Owen, R. 1848 B, 69 (Elops).

Regan, C. T. 1910 A, 254.

1923 B, 457.

Ridewood, W. G. 1904 A, 35, 37.

Schlosser, M. 1917 A, 139, 140, 148 ("elopiden").

Shepherd, C. E. 1914 A, 263.

Stromer, E. 1912 A, 33.

Woodward, A. S. 1898 B, 117.

1901 A, vi, 7.

1912 A, (1907), 112.

Zittel, K. A. 1890 A, 278 (Elopina).

Zittel, Eastman, etc. 1902 A, 94.

Zittel and Koken 1911 A, 124.

Zittel and Schlosser 1923 A, 129.

HOLCOLEPIS Marek. Type *Rhabdolepis cretaceus* Marek.

Marek, W. 1868, Palaeontogr., xv, 278 (To replace *Rhabdolepis*, preoccupied).

Cockerell, T. D. A. 1919 A, 173.

Marek, W. 1863 A, 26 (*Rhabdolepis*).

Jordan, D. S. 1905 A, i, 454, fig. 265; ii, 43.

1907 B, 270, fig. 201.

1919 B, 339, 352.

Woodward, A. S. 1901 A, 11.

Holcolepis delicatus Cockerell.

Cockerell, T. D. A. 1919 A, 175, pl. xxxi, fig. 5.

Upper Cretaceous (Mowry); Wyoming.

Holcolepis obliquus Cockerell.

Cockerell, T. D. A. 1919 A, 175.

Upper Cretaceous (Mowry); Wyoming.

Holcolepis pulchellus Cockerell.

Cockerell, T. D. A. 1919 A, 174, pl. xxi, figs. 3, 4.

Upper Cretaceous (Niobrara or Benton); Colorado.

Holcolepis transversus Cockerell.

Cockerell, T. D. A. 1919 A, 175, pl. xxxi, figs. 6-13.

Upper Cretaceous (Mowry); Wyoming; (Benton); Colorado.

Holcolepis sp. indet.

Cockerell, T. D. A. 1919 A, 175, pl. xxxii, fig. 2 (Colorado beds); Wyoming.

Reeside, J. B. 1924 A, 12, pl. iii. Upper Cretaceous (Mancos); New Mexico.

HELMINTHOLEPIS Cockerell. Type *H. vermiculatus* Cockerell.

Cockerell, T. D. A. 1919 A, 176.

Helmintholepis vermiculatus Cockerell.

Cockerell, T. D. A. 1919 A, 176, pl. xxxii, fig. 4.

Upper Cretaceous (Fox Hills); Colorado.

ECTASIS Jordan and Gilbert. Type *E. proriger* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 62.

Hubbs, C. L. 1924 A, 178.

Jordan, D. S. 1921 A, 242.

Ectasis proriger Jordan and Gilbert.

Jordan and Gilbert 1919 A, 62.

Jordan, D. S. 1921 A, 242, pl. xvii, fig. a.

Upper Pliocene; California.

SPANIODONTIDÆ Jordan.

Jordan, D. S. 1905 A, ii, 43.

Jordan, D. S. 1923 A, 117 (To Elopidae).

SPANIODON Pictet. Type *S. blondelii* Pictet.

Hay, O. P. 1902 A, 391.

Cope, E. D. 1880 U, 147.

Davis, J. W. 1887 C, 593 (*Lewisia*, type *L. ovalis* Davis).

Hay, O. P. 1903 G, 694.

Hennig, E. 1912 A, 490.

Jordan, D. S. 1923 A, 117.

Woodward, A. S. 1901 A, 48.

Zittel and Koken 1911 A, 125.
1923 A, 129.

Spaniodon simus Cope.

Hay, O. P. 1902 A, 391.

Cockerell, T. D. A. 1919 A, 173.

Hay, O. P. 1903 A, 47, pl. iv, figs. 1, 2.

Hussakof, L. 1908 A, 101.

Woodward, A. S. 1901 A, 53.

Cretaceous (Niobrara); South Dakota.

THRISOPOATER Günther. Type *T. salmoneus* Günther.

Günther, A. C. 1872, figs. Descrip. Brit. Org. Remains, dec. xiii.

Boulenger, G. 1904 D, 562.

Jordan, D. S. 1905 A, ii, 43.

Moodie, R. L. 1911 G, 231.

Woodward, A. S. 1901 A, 32.

1912 A (1908), 136.

Thrissopater intestinalis Moodie.

Moodie, R. L. 1911 G, 281; pl. lxi.

1913 A, 249.

Upper Cretaceous (Niobrara); Texas.

Superfamily *ALBULOIDÆ*, new name.

PELYCORAPIDÆ Cragin.

Cragin, F. W. 1901 A, 31 (Pelecorapidæ); 25 (Syllæmidæ).

Jordan, D. S. 1925 A, 229, 230 (Syllæmidæ).

SYLLÆMUS Cope. Type *S. latifrons* Cope.

Hay, O. P. 1902 A, 399.

Boulenger, G. A. 1904 D, 565 (Syllæmus).

Cockerell, T. D. A. 1919 A, 185.

Cragin, F. W. 1901 A, 26.

Goodrich, E. S. 1909 D, 393 (Syllæmus).

Jordan, D. S. 1925 A, 229.

Woodward, A. S. 1901 A, xi, 350.

1912 A (1903), 88, pls. xx, xxi.

Syllæmus latifrons Cope.

Hay, O. P. 1902 A, 399.

Cockerell, T. D. A. 1908 C, 176.

1914 A, 190.

1919 A, 180.

Cragin, F. W. 1901 A, 27, pl. i, figs.

Cope, E. D. 1877 K, 27, pl. xxiii, fig. 1.

Jordan, D. S. 1905 A, ii, 224.

1907 B, 439.

Merrill, G. P. 1907 A, 20.

Woodward, A. S. 1901 A, 351, 614.

Cretaceous?; New Mexico.

APSOPELIX Cope. Type *A. sauriformis* Cope.

Hay, O. P. 1902 A, 390.

Cockerell, T. D. A. 1919 A, 171, 172, 185.

Jordan, D. S. 1925 A, 229.

Woodward, A. S. 1901 A, 353.

Apsopelix sauriformis Cope.

Hay, O. P. 1902 A, 390.

Cockerell, T. D. A. 1919 A, 185.

Cope, E. D. 1874 B, 431.

Hussakof, L. 1908 A, 62.

Jordan, D. S. 1925 A, 230, pl. xx.

Cretaceous (Benton); Kansas.

PELYCORAPIS Cope. Type *P. varius* Cope.

Cope, E. D. 1874 C, 39 (Pelecorapis, lapsu calami).

Hay, O. P. 1902 A, 399 (Pelecorapis).

Cockerell, T. D. A. 1919 A, 185, 187.

Cragin, F. W. 1901 A, 31, (Pelecorapis).

Jordan, D. S. 1923 A, 157 (Pelycorapis).

1925 A, 229 (Pelecorapis).

Woodward, A. S. 1901 A, 354 (Pelycorapis).

Pelycorapis berycinus (Cope).

Hay, O. P. 1902 A, 399 (Pelecorapis).

Cockerell, T. D. A. 1908 C, 176 (Pelecorapis).

1919 A, 187 (Pelecorapis).

Hussakof, L. 1908 A, 86, fig. 44 (Pelecorapis).

Woodward, A. S. 1901 A, 354.

Upper Cretaceous (Pierre?); Montana?.

Pelycorapis microlepis Cragin.

Cragin, F. W. 1901 A, 35, pl. ii, fig. 3 (Pelecorapis).

Upper Cretaceous (Benton); Kansas.

Pelycorapis varius Cope.

Hay, O. P. 1902 A, 399.

Cockerell, T. D. A. 1919 A, 171, 187.

Cope, E. D. 1874 B, 431 (P. varians).

Cragin, F. W. 1901 A, 32, pl. ii, figs. 1, 2.

Hussakof, L. 1908 A, 87.

Woodward, A. S. 1901 A, 354.

Cretaceous (Benton); Kansas.

LEPTICHTHYS Stewart. Type *L. agilis* Stewart.

Hay, O. P. 1902 A, 392.

Jordan, D. S. 1925 A, 229.

Leptichthys agilis Stewart.

Hay, O. P. 1902 A, 392.

Jordan, D. S. 1925 A, 231, pl. xxi.

Woodward, A. S. 1901 A, 614, 616.

1912 A, (1903), 88.

Upper Cretaceous (Niobrara); Kansas.

ALBULIDÆ Cope.

- Cope, E. D.* 1871 T, 455.
Hay, O. P. 1902 A, 390.
Allis, E. P. 1909 A, 213 (Albula).
Arlt, T. 1923 A, 497.
Boulenger, G. A. 1904 A, 164.
 1904 D, 547.
Cockerell, T. D. A. 1913 B, 122.
 1919 A, 172.
Cope, E. D. 1872 C, 329, 333.
Dean, Gudger, Henn 1923 A, 594, 625.
Dietz, P. A. 1917 A, 84.
Frost, G. A. 1925 A, 155, pl. xi (Albula).
Gill, T. 1885 C, 137.
 1905 F, 40, pls. xvii, xviii, xxi; text-figs. 5-7.
Goodrich, E. S. 1909 A, 387.
Gregory, W. K. 1907 D, 469.
Hubbs, C. L. 1919 B, 63 (Albula).
Jordan, D. S. 1885 A, 137.
 1905 A, ii, 44, 556.
 1907 B, 271, 761.
- Jordan, D. S.* 1923 A, 118.
Jordan and Evermann 1896 A, 410.
Jordan and Gilbert 1882 A, 258.
Klaatsch, H. 1890 A, 168, pl. vii (Albula).
Meek, A. 1916 A, 63.
Priem, F. 1908 B, 81 (Albula).
Rauther, M. 1913 A, 1100.
Regan, C. T. 1910 A, 357.
Ridewood, W. G. 1904 A, 35, 47.
 1904 B, 213.
 1905 C, 272.
Schlosser, M. 1917 A, 140, 143.
Shepherd, C. E. 1914 A, 264.
Starks, E. C. 1916 A, 14 (Albula).
Woodward, A. S. 1899 C, 361.
 1901 A, vi, 4, 59.
 1923 B, 297.
Zittel and Koken 1911 A, 121.
Zittel and Schlosser 1923 A, 126.
Zittel and Woodward 1902 A, 94.

CYCLOIDES Winckler. Type *C. incisus* Winckler.

- Winckler, T. C.* 1876 A, 3, pl. i, fig. 2.
Cockerell, T. D. A. 1919 A, 173.
Jordan, D. S. 1919 B, 398.
- Cycloides? incertus** Cockerell.
Cockerell, T. D. A. 1919 A, 173, pl. xxxi, fig. 2.
 Upper Cretaceous (Mesa Verde); Wyoming.

PETALOLEPIS Steinla. Type *Osmeroides divaricatus* Geinitz.

- Steinla, M.* 1868, in Geinitz, H. B. 1868 A, 42, pl. ii, fig. 18 (As syn. of *Osmeroides*).
Jordan, D. S. 1919 B, 350.
- Petalolepis? fibrillatus** Cockerell.
Cockerell, T. D. A. 1919 A, 172, pl. xxxi, fig. 1.
 Upper Cretaceous (Mesa Verde); Wyoming.

CYCLOTOMODON Cope. Type *C. vagrans* Cope.

- Hay, O. P.* 1902 A, 390.
- Cyclotomodon vagrans** Cope.
Hay, O. P. 1902 A, 390.
Woodward, A. S. 1901 A, 45.
 Phosphate beds; South Carolina.

ANOGMIIDÆ Jordan.

Jordan, D. S. 1925 A, 219.

ANOGMIUS Cope. Type *A. contractus* Cope.

- Cope, E. D.* 1871 J, 170.
Hay, O. P. 1902 A, 393.
Arlt, T. 1923 A, 497.
Cockerell, T. D. A. 1919 A, 172.
Cope, E. D. 1877 G, 584.
Hay, O. P. 1903 A, 26, text-figs. 15-17, 33-36 (This genus?).
Hennig, E. 1912 A, 490.
Jordan, D. S. 1919 B, 360, 388.
 1925 A, 219 (Thryptodus, Pseudothryptodus, syns.?).
Schlosser, M. 1901 L, 480.
Woodward, A. S. 1901 A, 71, foot-note.
 1912 A (1907), 105.
 1923 B, 297, fig. 1.
Zittel and Koken 1911 A, 124.
Zittel and Schlosser 1923 A, 129.
 This genus may be identical with *Pachyrhizodus*.
- Anogmius contractus** Cope.
Hay, O. P. 1902 A, 393 (A. contractus, A. aratus).
 1903 A, 28 (A. contractus); 34, pl. ii, text-figs. 23-26 (A. aratus).
Hussakof, L. 1908 A, 61, fig. 30.
Jordan, D. S. 1925 A, 219, 220 (A. aratus, a syn.).
Woodward, A. S. 1901 A, 71 (A. contractus); 72 (A. aratus).
 1912 A (1907), 105, fig. 33.
 1923 B, 298.
Zittel and Koken 1911 A, 124, fig. 231 (A. aratus).
Zittel and Schlosser 1923 A, 128, fig. 25 (A. aratus).
 Upper Cretaceous (Niobrara); Kansas.

Anogmius evolutus Cope.

Hay, O. P. 1902 A, 393.

1903 A, 46, text-fig. 37.

Hussakof, L. 1908 A, 62.

Jordan, D. S. 1925 A, 220, 221.

Woodward, A. S. 1901 A, 72 (Anogmius);
386 (Beryx multidentatus).

Upper Cretaceous (Niobrara); Kansas.

Anogmius favirostris Cope.

Hay, O. P. 1902 A, 393.

1903 A, 30, text-figs. 18-21.

Hussakof, L. 1908 A, 62.

Jordan, D. S. 1925 A, 220.

Woodward, A. S. 1901 A, 73.

Upper Cretaceous (Niobrara); Kansas.

Anogmius intermedius (Loomis).

Hay, O. P. 1902 A, 393.

Jordan, D. S. 1925 A, 219.

Woodward, A. S. 1901 A, 85 (Pseudothryptodus).

Upper Cretaceous (Niobrara); Kansas.

Anogmius polymicrodus (Stewart).

Hay, O. P. 1902 A, 393.

Cockerell, T. D. A. 1919 A, 179.

Hay, O. P. 1903 A, 35.

Jordan, D. S. 1925 A, 219, 220, pl. xiii.

Lambe, L. M. 1914 H, 402.

Sauvage, H. E. 1901 A, 6.

Schlosser, M. 1901 L, 479.

Woodward, A. S. 1901 A, 72.

Upper Cretaceous (Niobrara); Kansas.

Anogmius sp. indet.Hay, O. P. 1903 A, 27, 30, 44, figs. 15, 17, 33,
34. Upper Cretaceous (Niobrara); Kansas.Hussakof, L. 1908 A, 62. Upper Cretaceous
(Niobrara); Kansas.

PLETHODONTIDÆ Woodward.

Woodward, A. S. 1912 A (1907), 105.

Hay, O. P. 1902 A, 393 (Osteoglossidæ, in part).

Cockerell, T. D. A. 1919 A, 172, 179.

Hay, O. P. 1903 A, 26 (Plethodidæ).

Jordan, D. S. 1905 A, ii, 44 (Thryptodontidæ).

1907 B, 271 (Thryptodontidæ).

1923 A, 119 (Thryptodontidæ).

Jordan, D. S. 1925 A, 220 (Anogniuidæ?).

Loomis, F. B. 1900 A, 229, 233 (Plethodidæ).

Schlosser, M. 1917 A, 140 ("plethodiden").

Woodward, A. S. 1899 C, 353, pls. xiii, xiv
(Plethodus).

Zittel and Koken 1911 A, 124 (Plethodidæ).

Zittel and Schlosser 1923 A, 128 (Plethodidæ).

THRYPTODUS Loomis. Type *T. zitteli* Loomis.

Hay, O. P. 1902 A, 393 (Anogmius).

Andreae, A. 1904 A, 309.

Cockerell, T. D. A. 1919 A, 179 (Plethodus).

Jordan, D. S. 1905 A, ii, 44 (Thryptodus,
Plethodus).

1907 B, 271 (Thryptodus, Plethodus).

1920 C, 490 (Type "*Plethodus zitteli*
Loomis").

1925 A, 219 (Thryptodus).

Storms, R. 1891 A, 151 (Plethodus).

Woodward, A. S. 1899 C, 353, pls. xiii, xiv
(Plethodus).

1901 A, 85.

1912 A (1907), 107, pl. xxii (Thryptodus, a
syn. of Plethodus).

Zittel and Koken 1911 A, 124 (Plethodus).

Zittel and Schlosser 1923 A, 129 (Thryptodus,
Plethodus).**Thryptodus rotundus** Loomis.

Hay, O. P. 1902 A, 393 (Anogmius).

Woodward, A. S. 1901 A, 85.

Upper Cretaceous (Niobrara); Kansas

Thryptodus zitteli Loomis.

Hay, O. P. 1902 A, 393 (Anogmius).

1903 A, 38, 41, 42.

Jordan, D. S. 1920 C, 490.

1925 A, 219.

Woodward, A. S. 1901 A, 85.

Upper Cretaceous (Niobrara); Kansas.

SYNTEGMODUS Loomis. Type *S. altus* Loomis.

Hay, O. P. 1902 A, 390.

Jordan, D. S. 1905 A, ii, 45.

1907 B, 271.

Woodward, A. S. 1901 A, 84 (Syn. of Pletho-
dus).

Zittel and Koken 1911 A, 124.

Zittel and Schlosser 1923 A, 129.

Syntegmodus altus Loomis.

Hay, O. P. 1902 A, 390.

1903 A, 41, text-figs. 27?-33? (Anogmius).

Hussakof, L. 1908 A, 61 (Anogmius. This
species?).

Jordan, D. S. 1905 A, ii, 44.

Woodward, A. S. 1901 A, 84.

Upper Cretaceous (Niobrara); Kansas

NIOBRARIDÆ Jordan.

Jordan, D. S. 1925 A, 222.

NIOBRARA Jordan. Type *N. encarsia* Jordan.

Jordan, D. S. 1925 A, 222.

Niobrara encarsia Jordan.

Jordan, D. S. 1925 A, 223, pl. xiv.

Upper Cretaceous (Niobrara); Kansas.

ZANCLITES Jordan. Type *Z. xenurus* Jordan.

Jordan, D. S. 1925 A, 224.

Zanclites xenurus Jordan.

Jordan, D. S. 1925 A, 224, fig. 15.

Upper Cretaceous (Niobrara); Kansas.

KANSANUS Jordan. Type *K. martini* Jordan.

Jordan, D. S. 1925 A, 226.

Kansanus martini Jordan.

Jordan, D. S. 1925 A, 226, pl. xvi.

Upper Cretaceous (Niobrara); Kansas.

LUXILITES Jordan. Type *L. striolatus* Jordan.

Jordan, D. S. 1925 A, 226.

Luxilites striolatus Jordan.

Jordan, D. S. 1925 A, 227, pl. xvii.

Upper Cretaceous (Niobrara); Kansas.

FERRIFRONS Jordan. Type *F. rugosus* Jordan.

Jordan, D. S. 1925 A, 227.

Ferrifrons rugosus Jordan.

Jordan, D. S. 1925 A, 228.

Upper Cretaceous (Niobrara); Kansas.

PTEROTHRISIDÆ Gill.

Gill, T. 1893 A, 131.

Cockerell, T. D. A. 1919 A, 172.

Goode and Bean 1895 A, 50.

Jordan, D. S. 1905 A, ii, 44 (Thryptodontidæ);
46 (Pterothrissidæ).

1907 A, 127, fig. 22 ("pterothrissoid fish").

1907 B, 273.

1923 A, 119.

CHICOLEPIS Cockerell. Type *C. punctatus* Cockerell.

Cockerell, T. D. A. 1919 A, 177.

Chicolepis punctatus Cockerell.

Cockerell, T. D. A. 1919 A, 177, pl. xxxiv, fig. 1.

Upper Cretaceous (Chico); California.

Superfamily CLUPEOIDÆ, new form.

Frost, G. A. 1925 A, 153 (Clupeoidea).

Gill, T. 1873 F, 11 (Clupeoidea).

Jordan, D. S. 1905 A, ii, 41 (Clupeoidea).

1907 B, 268 (Clupeoidea).

1923 A, 119 (Clupeoidei).

Regan, C. T. 1909 B, 77 (Clupeoidei).

Ridewood, W. G. 1905 B, 448 ("elupeoid
fishes").

Tracy, H. C. 1920 A, 441 ("elupeoids").

ICHTHYODECTIDÆ Crook.

Crook, A. R. 1892 A, 111, 121.

Hay, O. P. 1902 A, 383 (Chirocentridæ, Ich-
thyodectinæ).

Arlt, T. 1923 A, 499 ("saurodontiden").

Cockerell, T. D. A. 1919 A, 177, 178.

Etheridge, R. 1905 A, 5.

Fowler, H. W. 1911 A, 154.

Jordan, D. S. 1905 A, ii, 48.

1907 B, 274, 761.

Jordan, D. S. 1923 A, 119.

Regan, C. T. 1922 A, 206.

Sauvage, H. E. 1901 F, 77 ("ichthyodectidés").

Schlosser, M. 1901 L, 479.

1917 A, 140, 141, 142 ("ichthyodectiden").

Zittel and Koken 1911 A, 128.

Zittel and Schlosser 1923 A, 127.

Zittel and Woodward 1902 A, 95.

XIPHACTINUS Leidy. Type *X. audax* Leidy.

Leidy, J. 1870 H, 12.

Hay, O. P. 1902 A, 383 (Porthenus, in part).

Bayer, F. 1908 A, 1.

Cope, E. D. 1871 S, 608.

Jordan, D. S. 1919 B, 358.

Rogers, A. F. 1924 A, 546.

Woodward, A. S. 1901 A, 92 (Syn. of Porthenus).

The fin-ray on which this genus was based
probably belonged to one of the species be-
low referred to *Porthenus*.**Xiphactinus audax** Leidy.

Leidy, J. 1870 H, 12.

Hay, O. P. 1902 A, 384 (Porthenus?).

Upper Cretaceous (Niobrara); Kansas.

PORTHEUS Cope. Type *P. molossus* Cope.

- Hay, O. P. 1902 A, 383.
 Ameghino, F. 1906 A, 186.
 Andreae, A. 1901 A, 309.
 1904 A, 309 (*Porteus*).
 Bayer, F. 1908 A, 1 [*Portheus* (*Xiphactinus*)].
 1909 A, 48.
 Cockerell, T. D. A. 1917 A, 62.
 1919 A, 177 (*Hypsodon*).
 Cope, E. D. 1880 U, 147.
 Dames, W. 1899 I, 155.
 Dean, Gudger, Henn 1923 A, 626.
 Dollo, L. 1892 F, 181.
 Etheridge, R. 1905 A, 5.
 Hay, O. P. 1899 H, 487.
 Hennig, E. 1912 A, 490.
 Jordan, D. S. 1919 B, 186, 219.
 Leriche, M. 1902 B, 137.
 McClung, C. E. 1908 B, 235, pls. x-xii; text-figs. 1-7.
 Osborn, H. F. 1904 I, 35.
 1917 B, 209, 210, fig.
 Priem, F. 1908 B, 61, fig. 23 (*Portheus*).
 Ridewood, W. G. 1905 B, 492.
 Rogers, A. F. 1924 A, 546 (*Xiphactinus*).
 Sauvage, H. E. 1899 C, 151.
 Schlosser, M. 1901 L, 480.
 Storms, R. 1891 A, 150, 151.
 Woodward, A. S. 1894 C, 444.
 1901 A, 87, 921.
 1912 A (1907), 99, pls. xxi; text-figs. 26-30.
 1913 A, 529 (*Portheus*, =? *Chirocentrites*).
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 127 (*Portheus*).
 Zittel and Woodward 1902 A, 95.
 This genus is possibly identical with *Xiphactinus* and *Hypsodon*.

***Portheus brachygnathus* Stewart.**

- Hay, O. P. 1902 A, 384.
 Schlosser, M. 1901 L, 479 (*Xiphactinus*).
 Woodward, A. S. 1901 A, 97.
 Upper Cretaceous (Niobrara); Kansas.

***Portheus? granulosus* (Cockerell).**

- Cockerell, T. D. A.* 1919 A, xxxii, fig. 5 (*Hypsodon*).
 Upper Cretaceous (Mowry); Wyoming.

***Portheus lestrio* Cope.**

- Hay, O. P. 1902 A, 384.
 Bayer, F. 1908 A, 3.
 1909 A, 102.
 Hussakof, L. 1908 A, 88.
 Woodward, A. S. 1901 A, 97.
 Cretaceous (Niobrara); Kansas.

***Portheus lowii* Stewart.**

- Hay, O. P. 1902 A, 384.
 Cockerell, T. D. A. 1919 A, 178, pl. xxxiv, fig. 2 (*Hypsodon*).
 Dames, W. 1899 I, 156.
 Woodward, A. S. 1901 A, 97.
 Upper Cretaceous (Benton); Kansas.

***Portheus molossus* Cope.**

- Hay, O. P. 1902 A, 384 (*P. audax*, *P. molossus*, *P. thaumas*).
 Abel, O. 1922 C, 320.
 Andreae, A. 1901 A, 309.
 Anonymous, 1910 A, 198.
 Bayer, F. 1908 A, 3 (*P. molossus*, *P. thaumas*).
 1909 A, 98 (*P. molossus*); p. 100 (*P. thaumas*).
 Cockerell, T. D. A. 1908 C, 173 (*P. thaumas*).
 1919 A, 177, pl. xxxii, fig. 8; pl. xxxiii, figs. 1, 2 (*Hypsodon*).
 Cope, E. D. 1891 N, 23, fig. 10.
 Holland, J. W. 1909 A, 453 (*P. molossus*).
 Hussakof, L. 1908 A, 88, fig. 46 (*P. molossus*); 89 (*P. thaumas*).
 Jaekel, O. 1911 A, 89, 90, figs. 100, 101 (*P. molossus*, *P. thaumas*).
 Jordan, D. S. 1905 A, ii, 48, fig. 36.
 1907 B, 274.
 Lambe, L. M. 1914 H, 399, 402, pl. i.
 1915 B, 118.
 Martin, H. T. 1907 A, 128, fig.
 Osborn, H. F. 1901 E, 331.
 1901 G, 160.
 1904 E, 377, pl. x; text-figs. 1-4.
 1904 F, 35.
 Reeside, J. B. 1924 A, 11, pl. iii.
 Sternberg, C. H. 1881 B, 4.
 1905 A, 127.
 1907 A, 295.
 1907 C, 122 (*P. colossus*).
 1909 C, 54, fig. 12.
 1913 A, 48.
 1917 A, 11, 168, fig. 5.
 1918 A, 205 (*Porthus*).
 Stromer, E. 1912 A, 33, fig. 44.
 Woodward, A. S. 1901 A, 92 (*P. molossus*); 97 (*P. thaumas*).
 1912 A (1907), 100, text-figs. 26-28.
 1913 A, 529, pl. xviii.
 1921 C, 181.
 Zittel and Schlosser 1923 A, 128, fig. 224.
 Upper Cretaceous (Niobrara); Kansas.

***Portheus mudgei* Cope.**

- Hay, O. P. 1902 A, 384.
 Bayer, F. 1908 A, 2.
 1909 A, 102.
 Woodward, A. S. 1901 A, 97.
 Upper Cretaceous (Niobrara); Kansas.

***Portheus? radiatulus* (Cockerell).**

- Cockerell, T. D. A.* 1919 A, 178, pl. xxxii, figs. 6, 7 (*Hypsodon*).
 Reeside, J. B. 1924 A, 12, pl. iii (*Hypsodon*).
 Upper Cretaceous (Mancos); Colorado, New Mexico: Upper Cretaceous (Mesa Verde); Wyoming.

***Portheus* sp. indet.**

- Hill, R. T. 1901 A, 328 (*Xiphactinus*). Lower Cretaceous (Eagle Ford); Texas.
 Hussakof, L. 1908 A, 90 (*Portheus*). Upper Cretaceous (Niobrara); Kansas.

Reeside, J. B. 1924 A, 17, pl. iii (Hypsodon).
Upper Cretaceous (Lewis); Colorado.
Stephenson, L. W. 1912 A, 128, 140 (Porthus
sp. indet.). Upper Cretaceous, North Caro-
lina.

Sternberg, C. H. 1906 B, 122 (Porthus).
Cretaceous (Niobrara); Kansas.

CLADOCYCLUS Agassiz. Type *C. gardneri* Agassiz.

Agassiz, L. 1841, Edinb. New Philos. Jour., xxx,
83.
Hay, O. P. 1902 A, 399.
Bronn, H. G. 1849 A, 675.
Cockerell, T. D. A. 1917 A, 61.
Jordan, D. S. 1923 A, 123.
Leriche, M. 1902 B, 137.
Storms, R. 1891 A, 156.
Toula, F. 1905 A, 65.
Woodward, A. S. 1894 C, 445.
1912 A (1903), 96 (Syn. of Ichthyodectes).

Cladocyclus occidentalis Leidy.

Hay, O. P. 1902 A, 399.
Cockerell, T. D. A. 1919 A, 177 (Syn.? of
Hypsodon audax).
Lambe, L. M. 1904 C, 21, 36, 44.
Tyrrell, J. B. 1892 A, 108.
Upper Cretaceous (Colorado); Nebraska or
Dakota, Manitoba.

ICHTHYODECTES Cope. Type *I. etenodon* Cope.

Hay, O. P. 1902 A, 384.
Andreae, A. 1904 A, 309.
Arlt, T. 1923 A, 499.
Bayer, F. 1908 A, 3.
Boulenger, G. A. 1904 D, 561, 743.
Cockerell, T. D. A. 1919 A, 179.
Cope, E. D. 1880 U, 147.
Dames, W. 1899 I, 155.
Dean, Gudger, Henn 1923 A, 684.
Dollo, L. 1892 F, 181.
Etheridge, R. 1905 A, 6.
Ridewood, W. G. 1905 B, 492.
Storms, R. 1891 A, 150.
Woodward, A. S. 1901 A, 99.
1912 A, (1903), 93; (1907), 97, text-fig. 24.
Zittel and Koken 1911 A, 129.
Zittel and Schlosser 1923 A, 128.
Zittel and Woodward 1902 A, 95.

Ichthyodectes acanthicus Cope.

Hay, O. P. 1902 A, 384.
Hussakof, L. 1908 A, 75, fig. 39.
Woodward, A. S. 1901 A, 107.
Cretaceous (Niobrara); Kansas.

Ichthyodectes anaides Cope.

Hay, O. P. 1902 A, 384.
Etheridge, R. 1905 A, 8.
Hay, O. P. 1903 A, 54.
Hussakof, L. 1908 A, 75.
Lambe, L. M. 1914 H, 402.
Woodward, A. S. 1901 A, 100.
Cretaceous (Niobrara); Kansas.

Ichthyodectes cruentus Hay.

Hay, O. P. 1902 A, 385.
Woodward, A. S. 1901 A, 107.
Cretaceous (Niobrara); Kansas.

Ichthyodectes ctenodon Cope.

Hay, O. P. 1902 A, 385.
Etheridge, R. 1905 A, 8.

Hussakof, L. 1908 A, 76.
Woodward, A. S. 1901 A, 100.
1912 A, (1903), 93.
Cretaceous (Niobrara); Kansas.

Ichthyodectes hamatus Cope.

Hay, O. P. 1902 A, 385.
Etheridge, R. 1905 A, 8.
Hussakof, L. 1908 A, 76.
Woodward, A. S. 1901 A, 107.
Cretaceous (Niobrara); Kansas.

Ichthyodectes multidentatus Cope.

Hay, O. P. 1902 A, 385.
1903 A, 57, text-figs. 42, 43.
Hussakof, L. 1908 A, 76.
Loomis, F. B. 1900 A, 243, 245, pl. xxiii, fig. 9;
text-figs. 8, 9.
Woodward, A. S. 1901 A, 107.
Cretaceous (Niobrara); Kansas.

Ichthyodectes parvus Stewart.

Hay, O. P. 1902 A, 385.
Upper Cretaceous (Niobrara); Kansas.

Ichthyodectes prognathus Cope.

Hay, O. P. 1902 A, 385.
Hussakof, L. 1908 A, 77.
Woodward, A. S. 1901 A, 107.
Upper Cretaceous (Niobrara); Kansas.

Ichthyodectes sp. indet.

Cockerell, T. D. A. 1919 A, 179. Cretaceous
(Niobrara); Montana: Cretaceous (Benton);
Colorado.
Hill, R. T. 1901 A, 328 Lower Cretaceous
(Eagle Ford); Texas.
Reeside, J. B. 1923 A, 205. Cretaceous (Da-
kota?); Colorado.
1924 A, 11. Upper Cretaceous (Mancos);
Colorado.

GILLICUS Hay. Type *Porthus areuatus* Cope.

Hay, O. P. 1902 A, 386.
1903 A, 59.

Hennig, E. 1912 A, 499.
Jordan, D. S. 1920 C, 480.

- McClung, C. E. 1908 B, 243, fig. 8.
 Woodward, A. S. 1901 A, 99, 101 (Ichthyodectes).
 Zittel and Koken 1911 A, 129.
 Zittel and Schlosser 1923 A, 128.
 Zittel and Woodward 1902 A, 95.

Gillicus arcuatus (Cope).

- Hay, O. P. 1902 A, 386.
 Hussakof, L. 1908 A, 74.
 Lambe, L. M. 1914 H, 402.
 Upper Cretaceous (Niobrara); Kansas.

SAUROCEPHALIDÆ Zittel.

- Zittel, K. A. 1890 A (1888), 262.
 Hay, O. P. 1902 A, 385 (Saurocephalinæ).
 Allis, E. P. 1909 A, 201.
 Arldt, T. 1907 D, 154, 281.
 Boulenger, G. A. 1904 A, 164 (Saurodontidæ).
 1904 D, 561 (Saurodontidæ).
 Dean, Gudger, Henn 1923 A, 626 (Saurodontidæ).
 Goodrich, E. S. 1909 A, 390 (Saurodontidæ).

- Hay, O. P. 1899 H, 487.
 Jordan, D. S. 1923 A, 120 (Saurodontidæ).
 Ridewood, W. G. 1905 B, 492 (Saurodontidæ).
 Sauvage, H. E. 1901 A, 5 (Saurodontidæ).
 1901 F, 77 ("saurodontidés").
 Schlosser, M. 1917 A, 140 (Saurodontiden).
 Zittel and Woodward 1902 A, 96 (Saurodontidæ).

SAUROCEPHALUS Harlan. Type *S. lanciformis* Harlan; not of Agassiz.

- Hay, O. P. 1902 A, 385.
 Agassiz, L. 1845 B, 300.
 Andreae, A. 1901 A, 308 (Saurocephalus, Saurodon).
 1904 A, 309.
 Arldt, T. 1923 A, 499.
 Bayer, F. 1908 A, 3 (Saurodon, Daptinus).
 Bronn, H. G. 1848 B, 1112.
 1849 A, 675.
 Cope, E. D. 1871 S, 608.
 1880 U, 147 ("saurocephale").
 Dames, W. 1899 I, 155 (Saurocephalus, Saurodon, Daptinus).
 Dollo, L. 1892 F, 181 (Saurocephalus, Daptinus).
 Fowler, H. W. 1911 A, 154.
 Gervais, P. 1852 A, explan. pl. lxx.
 1859 A, 522, pl. lxx.
 Giebel, C. G. 1855 A, 104.
 Gray, J. E. 1825 A, 196.
 Harlan, R. 1833 A, 174.
 Hay, O. P. 1899 H, 480.
 1903 A, 48.
 Hennig, E. 1912 A, 490 (Saurodon, Saurocephalus).
 Jordan, D. S. 1923 A, 119, 120.
 Jordan and Evermann 1917 A, 118.
 Mantell, G. A. 1844 A, 665, fig. 136.
 Priem, F. 1908 B, 37.
 Ridewood, W. G. 1905 B, 492 (Saurodon).
 Sauvage, H. E. 1899 C, 150 (Saurodon).
 Schlosser, M. 1901 L, 479 (Saurocephalus, Saurodon).
 Storms, R. 1891 A, 150.
 Woodward, A. S. 1901 A, 111 (Saurodon); 113 (Saurocephalus).
 1912 A (1907), 103 (Saurodon).
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 128.
 Zittel and Woodward 1902 A, 96 (Saurocephalus, Saurodon).

Saurocephalus arapahovius Cope.

- Hay, O. P. 1902 A, 385.
 Woodward, A. S. 1901 A, 114.
 Upper Cretaceous (Niobrara); Kansas.

Saurocephalus broadheadi (Stewart).

- Hay, O. P. 1902 A, 386.

- Dames, W. 1899 I, 156 (Daptinus).
 Stewart, A. 1900 A, 313, pl. xlviii, figs. 1a-1c (Saurodon).
 Woodward, A. S. 1901 A, 113 (Saurodon).
 Upper Cretaceous (Niobrara); Kansas.

Saurocephalus dentatus Stewart.

- Hay, O. P. 1902 A, 386.
 1899 H, 485.
 Woodward, A. S. 1901 A, 114.
 Upper Cretaceous (Niobrara); Kansas.

Saurocephalus goodeanus (Cope).

- Hay, O. P. 1902 A, 385 (Ichthyodectes).
 1903 A, 52, text-fig. 41.
 Hussakof, L. 1908 A, 97, fig. 49.
 Woodward, A. S. 1901 A, 107 (Ichthyodectes).
 Cretaceous (Niobrara); Kansas.

Saurocephalus lanciformis Harlan.

- Hay, O. P. 1902 A, 386.
 Harlan, R. 1833 A, 174, pl. i, figs. 1-5.
 Hay, O. P. 1899 H, 480, figs. 1-3.
 1903 A, 50.
 Hussakof, L. 1908 A, 97 (*S. arapahovius* a syn.).
 Spillman, W. 1863 A.
 Woodward, A. S. 1901 A, 113.
 Cretaceous (Niobrara); Kansas, Nebraska.

Saurocephalus leanus (Hay).

- Hay, O. P. 1902 A, 386.
 Fowler, H. W. 1911 A, 155, fig. 94.
 Mantell, G. A. 1844 A, 666, fig. 136 (Saurodon).
 Merrill, G. P. 1907 A, 19 (Saurocephalus, Saurodon).
 Woodward, A. S. 1901 A, 111 (Saurodon).
 1912 A (1902), 44 (Saurodon).
 Upper Cretaceous (Navesink-Hornerstown); New Jersey.

Saurocephalus pamphagus Hay.

- Hay, O. P. 1902 A, 386.
 1899 H, 486, fig. 5.
 Hussakof, L. 1908 A, 97.
 Cretaceous (Niobrara); Kansas.

Saurocephalus phlebotomus Cope.

- Hay, O. P. 1902 A, 386.

- Cope, E. D. 1872 I, 343 (Saurocephalus).
 Crook, A. R. 1892 A, 120, 123 (Daptinus).
 Gorjanovič-Kramberger, D. 1891 A, 69, pl. ii, fig. 5 (Daptinus. This species?).
 Hay, O. P. 1899 H, 485 (Saurodon).
 1903 A, 49, text-fig. 38.
 Hussakof, L. 1908 A, 98.
 Newton, E. T. 1878 B (Daptinus).
 Woodward, A. S. 1901 A, 112 (Saurodon).
 Cretaceous (Niobrara); Kansas: Cretaceous; Hungary?.

Saurocephalus pygmæus (Loomis).

- Hay, O. P. 1902 A, 386.
 Woodward, A. S. 1901 A, 113 (Saurodon).
 Upper Cretaceous (Niobrara); Kansas.

Saurocephalus stewarti, nom. nov.

- Hay, O. P. 1902 A, 386 (Saurocephalus ferox; not of Gervais).

- Stewart, A. 1898 C, 183, pl. xv, pl. xvi, figs. 1-3 (Saurodon ferox).
 Woodward, A. S. 1901 A, 113 (Saurodon ferox).
 Upper Cretaceous (Niobrara); Kansas.

Saurocephalus xiphirostris (Stewart).

- Stewart, A. 1898 D, 178 (Saurodon).
 Hay, O. P. 1902 A, 386.
 1903 A, 51, text-figs. 39, 40.
 Hussakof, L. 1908 A, 96.
 Woodward, A. S. 1901 A, 113 (Saurodon).
 1912 A (1907), 104 text-fig. 31 (Saurodon).
 Cretaceous (Niobrara); Kansas.

Saurocephalus sp. indet.

- Hussakof, L. 1908 A, 98 (This genus?). Upper Cretaceous (Niobrara); Kansas.
 Tuomey, M. 1848 A, 180 ("Saurocephalus").
 Pliocene?; South Carolina.

CLUPEIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 95.
 Hay, O. P. 1902 A, 390.
 Abel, O. 1912 F, 441.
 Agassiz, L. 1832 A, 142 ("clupeoiden").
 Ahlborn, F. 1896 B, 12 ("clupeiden").
 Allis, E. P. 1909 A, 213.
 1915 A.
 Arltdt, T. 1907 D, 646.
 1912 A, 762 (Clupeinæ).
 1923 A, 500 ("clupeiden").
 Baudelot, E. 1873 A, 97, 192, pl. v, figs. 8, 12 (Clupea).
 Belling, D. E. 1912 A, 60 ("clupoiden").
 Bonaparte, C. L. 1833 B, 1201.
 1838 B, 132.
 Boulenger, G. A. 1901 D, 123.
 1904 A, 164.
 1904 D, 562, 736.
 1917 B, 330.
 Bronn, H. G. 1849 A, 780, seq. (Clupeoidei).
 Bridge, T. W. 1896 A, 557.
 Carus, V. 1875 A, 577 (Clupeoidei).
 Cockerell, T. D. A. 1910 B, 61 ("clupeid fishes").
 1913 B, 123.
 Cope, E. D. 1871 D, 455.
 Creaser, C. W. 1926 A, 53.
 Cunningham, J. T. 1897 A, 493.
 1912 A, 246.
 Cuvier, G. 1805 A ("harengs").
 Dahl, K. 1910 A, 603.
 Dean, Gudger, Henn 1923 A, 675.
 Dietz, P. A. 1917 A, 85.
 Derjugin, K. 1910 A, 603.
 Duméril, A. 1856 A, 412 ("clupéides").
 Eastman, C. R. 1911 B, 377 ("clupeoids").
 Fitzinger, L. J. 1873 A, 37 (Clupea).
 Fryd, C. 1901 A, 34.
 Fulton, T. W. 1906 A, 77.
 Gaupp, E. 1898 B, 823 ("clupeiden").
 Gill, T. 1861 C, 33 ("clupiods").
 1885 C, 135.
 Goette, A. 1879 A, 128 ("clupeiden").
 Goodrich, E. S. 1909 A, 391.
 Gregory, W. K. 1907 D, 471 ("clupeoid fishes").

- Haller, B. 1906 A, 233 ("clupeiden").
 Hase, A. 1911 B, 338 ("clupeoid").
 Hasse, C. 1873 A, 584, figs. 9-12 ("clupeiden").
 1873 B, 629 ("clupeiden").
 Heckel, J. 1850 A, 364.
 1850 B, 146 ("clupeiden").
 1856 A, 242.
 Hoernes, R. 1886 A, 529.
 Hoeven, J. 1822 A (Clupeæ).
 Jordan, D. S. 1885 A, 135.
 1905 A, 11, 49, 564 (Clupeidæ); 43 (Spaniodontidæ).
 1907 A, 126, figs. 20, 21 ("Clupeoid fish, A. B. C.").
 1907 B, 275, 761.
 1921 A, 242.
 1923 A, 120.
 Jordan and Gilbert 1882 A, 262.
 Klaatsch, H. 1890 A, 165 ("clupeiden").
 Klein, E. F. 1868 A ("clupéen").
 1879 A, 106 (Clupeina).
 1884 A, 131, 132, 134, 135, 138, 147, 148, 153, 156, 164, 230, 242, 248.
 1885 A, 109, 114, 146, 161, 189, 215, 242.
 1886 A, 206, 224, 259, 294.
 Kner, R. 1861 A, 250 (Clupeoidei).
 Köstlin, O. 1844 A ("clupéen").
 Kolzoff, N. K. 1896 A, 515, fig. 1 (Clupea).
 Leunis and Ludwig 1883 A, 756.
 Lönnberg, E. 1902 A.
 Meckel, J. F. 1825 A ("clupéen").
 Meek, A. 1916 A, 65.
 Moodie, R. L. 1911 G, 282.
 Norman, E. W. 1926 A.
 Palacký, J. 1902 B, 141 ("clupeiden").
 Pechlau, W. 1908 A, 693 ("clupeiden").
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1910 A, 356.
 1910 B, 531.
 1916 A, 1.
 Retterer, E. 1905 C, 246 (Clupea).
 Richardson, J. 1836 A, 229 (Clupeoideæ).
 Sagemehl, M. 1883 A ("clupeiden").
 1884 A, 101 ("clupeiden").
 Schlosser, M. 1917 A, 139, 140, 142 ("clupeiden").

- Schubert, R. J. 1906 A, 657.
 Siebenrock, F. 1901 A, 108.
 Stannius, H. 1849 A, 538.
 Steinmann, G. 1927 A, 12 ("clupeiden").
 Stephan, P. 1900 A, 301.
 Thilo, O. 1908 A, 777 ("clupeiden").
 Tims, H. W. 1905 A, 55 ("clupeoids").
 Traquair, R. H. 1900 C, 508 ("clupeoids").
 Wagner, R. 1843 A ("häringe").

- Wallace, A. R. 1876 A, ii, 454.
 Whitehouse, R. H. 1910 A, 426.
 1910 B, 598 ("clupeoids").
 1910 C, 139 (Clupea).
 Woodward, A. S. 1901 A, vii, 5, 128.
 Zittel and Koken 1911 A, 120.
 Zittel and Schlosser 1923 A, 125.
 Zittel and Woodward 1902 A, 96.

CLUPEA Linnæus. Type *C. harengus* Linnæus.

- Linnæus*, C. 1758 A, 317.
 Allis, E. P. 1909 A, 213.
 Arldt, T. 1923 A, 501.
 Baudelot, E. 1873 A, 97, 192, pl. v, figs. 8, 12.
 Belling, D. E. 1912 A, 50.
 Bronn, H. G. 1848 A, 308.
 1849 A, 671.
 Cockerell, T. D. A. 1906 A, 160.
 1910 B, 63.
 1913 B, 123.
 Cuvier, G. 1815 A, 109.
 Dean, Gudger, Henn 1923 A, 674, 675.
 Derjugin, K. M. 1909 A, pl. vii, figs. 61, 62.
 1910 A, 603.
 Dietz, P. A. 1914 A, 102.
 Duméril, A. 1856 A, 416 ("clupée").
 Frost, G. A. 1925 A, 154, pl. xi.
 Fryd, C. 1901 A, 15, 34, fig. 18.
 Fulton, T. W. 1906 A, 77, pls. iii B, v.
 Gaupp, E. 1905 D, 914 ("clupeiden").
 Giebel, C. G. 1855 A, 109.
 Gill, T. 1885 C, 135.
 Goodrich, E. S. 1922 A, 505.
 Hammarsten, O. D. 1911 A, 677.
 Hasse, C. 1873 A, 584.
 Hubbs, C. L. 1926 A, 65.
 Huntsman, A. G. 1919 A, 592.
 Imms, A. D. 1904 A, 23, figs. 122, 125.
 Jordan, D. S. 1885 A, 135.
 1905 A, ii, 49, 564.
 1907 B, 275.
 1910 A, 32.
 Jordan and Evermann 1917 A, 15.
 Jordan and Gilbert 1882 A, 264.
 Kingsley, J. S. 1925 A, 239, fig. 251.
 Klaatsch, H. 1890 A, 255.
 Klein, E. F. 1879 A, 106.
 Klein, E. F. 1884 A, 167, 230, 248, pl. ii.
 1885 A, 114, 189, 215, 229.
 1886 A, 224, 259, fig. 26.
 Kolzoff, N. K. 1896 A, 515, fig. 1.
 Ledouble, A. F. 1906 A, 551.
 Noorden, C. 1883 A, 235, pl. x.
 Meck, A. 1916 A, 67-106.
 Norman, E. W. 1926 A, 407, figs. 45, 46, 49-51.
 Owen, R. 1866 A, 38.
 Pevsner, V. 1926 A, 304.
 Regan, C. T. 1910 A, 357.
 1910 B, 532, fig. 1.
 1916 A, 2.
 Retterer, E. 1905 C, 246.
 Ridewood, W. G. 1904 A, 58.
 1904 B, 215.
 1905 B, 453.
 Schlosser, M. 1917 A, 145.
 Stadtmüller, F. 1926 A, 160, fig. 6.
 Stannius, H. 1854 A.
 Starks, E. C. 1905 A, 754.
 Steinmann, G. 1927 A, 12.
 Stephan, P. 1900 A, 286.
 Tracy, H. C. 1920 A, 444.
 Wagner, R. 1843 A.
 Weber, E. H. 1821 A, 1061.
 Wells, F. R. 1922 A, 1213, figs. 1-11.
 Whitehouse, R. H. 1910 A, 427.
 1910 B, 597, pl. xlvii, fig. 5.
 1910 C, 139.
 Woodward, A. S. 1901 A, 146.
 Zittel and Koken 1911 A, 120.
 Zittel and Schlosser 1923 A, 125.
 Zittel and Woodward 1902 A, 96.

Clupea? sp. indet.

- Jordan, D. S. 1907 A, 126, 127 ("clupeoid fishes A, B, C."). Miocene; California.

POMOLOBUS Rafinesque. Type *P. chrysochloris* Rafinesque.

- Rafinesque*, C. S. 1820, Ichth. Ohien., 38.
 Cockerell, T. D. A. 1913 B, 124.
 Creaser, C. W. 1926 A, 53.
 Dean, Gudger, Henn 1923 A, 696.
 Jordan, D. S. 1905 A, ii, 50.
 1907 B, 276.
 Jordan and Evermann 1896 A, 424.
 Jordan and Gilbert 1882 A, 265.

- Meek, A. 1916 A, 103.
 Regan, C. T. 1917 A, 296, 297.
 Tracy, H. C. 1920 A, 453, pls. i-v.

Pomolobus? chicoensis Cockerell.

- Cockerell*, T. D. A. 1919 A, 180, pl. xxiv, fig. 5.
 Upper Cretaceous (Chico); California.

DIPLOMYSTUS Cope. Type *D. dentatus* Cope.

- Hay, O. P. 1902 A, 391.
 Arldt, T. 1923 A, 501.
 Chapman, F. 1918 A, 26, 32.
 Cockerell, T. D. A. 1908 C, 173.
 Cope, E. D. 1877 AA, 1.
 Costa, O. G. 1850, Atti. Accad. Pontan., v, 228
 (Histiurus; type *H. clatus* Costa).

- Coulon, L. 1903 A, 154.
 Dollo, L. 1904 C, 159 (Copeichthys; type *D. dentatus*).
 Eastman, C. R. 1911 B, 374.
 1912 B, 372, 374.
 Haseman, J. D. 1912 A, 98.
 Jordan, D. S. 1905 A, ii, 52, 566.

Jordan, D. S. 1907 B, 278.

1910 A, 23.

1919 B, 388.

1921 A, 243, 244.

Jordan and Gilbert 1920 A, 11.

Ogilby, J. D. 1892, Rec. Austral. Mus., ii, 26
(*Hyperlophus*; type *Clupea sprattellides*
Ogilby).

Rogers, A. F. 1924 A, 545 (*Diplomystis*).

Schlosser, M. 1917 A, 144.

Seeley, H. G. 1886 A, 412.

Woodward, A. S. 1892 H, 412.

1901 A, viii, 139 (*Diplomystus*); viii, 146
(*Clupea*).

1922 C, 97, fig. 106.

Zittel and Koken 1911 A, 120.

Zittel and Woodward 1902 A, 96.

***Diplomystus analis* Cope.**

Hay, O. P. 1902 A, 391.

Cockerell, T. D. A. 1908 C, 173.

Coulon, L. 1903 A, 154.

Eastman, C. R. 1912 B, 378.

Merrill, G. P. 1907 A, 10.

Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 8.

Woodward, A. S. 1901 A, 139 (Syn. of *D.*
dentatus).

Eocene (Green River); Wyoming.

***Diplomystus dentatus* Cope.**

Hay, O. P. 1902 A, 391.

Cockerell, T. D. A. 1908 C, 173.

Eastman, C. R. 1912 B, 373, 374, 378.

Holland, W. J. 1910 B, 24, pl. vi.

Hussakof, L. 1908 A, 71.

Jordan, D. S. 1910 A, 24, pls. v, vi.

Lee, Stone, Gale 1915 A, 74, pl. xix.

Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 8.

Woodward, A. S. 1901 A, 139.

Eocene (Green River); Wyoming.

***Diplomystus pectorosus* Cope.**

Hay, O. P. 1902 A, 391.

Cockerell, T. D. A. 1908 C, 173.

Eastman, C. R. 1912 B, 374, 378.

Merrill, G. P. 1907 A, 10.

Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 9 (*D. pectorosus*).

Woodward, A. S. 1901 A, 140 (Syn. of *D.*
dentatus).

Eocene (Green River); Wyoming.

***Diplomystus theta* Cope.**

Hay, O. P. 1902 A, 391.

Woodward, A. S. 1901 A, 140 (Syn. of *D.*
dentatus).

Eocene (Green River); Wyoming.

KNIGHTIA Jordan. Type *Clupea humilis* Leidy = *K. eocæna* Jordan.

Jordan, D. S. 1907 A, 136.

Hay, O. P. 1902 A, 391 (*Diplomystus* in part).

Cockerell, T. D. A. 1908 C, 173.

Cope, E. D. 1870 U, 316, *Lithichthys*; type
L. pusillus=?*Clupea pusillus* Cope.

Eastman, C. R. 1912 B, 374.

Jordan, D. S. 1910 A, 23, 24.

1921 A, 246.

Jordan and Gilbert 1920 A, 11.

***Knightia alta* (Leidy).**

Hay, O. P. 1902 A, 391 (*Diplomystus*).

Cockerell, T. D. A. 1908 C, 173.

Eastman, C. R. 1912 B, 374, 378 (*Diplomystus*).

Hussakof, L. 1908 A, 78.

Jordan, D. S. 1907 A, 137.

Merrill, G. P. 1907 A, 8 (*Clupea*); 10 (*Dip-*
lomystus).

Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 10.

Zittel and Schlosser 1923 A, 125.

Woodward, A. S. 1901 A, 145 (*Diplomystus*).

Eocene (Green River); Wyoming.

***Knightia copei* Tanner.**

Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 11, pl. iii, fig. 6.

Eocene (Green River); Wyoming.

***Knightia eocæna* Jordan.**

Jordan, D. S. 1907 A, 136.

Hay, O. P. 1902 A, 391 (*Diplomystus humilis*).

Cockerell, T. D. A. 1908 C, 173 (*Clupea humilis*,
C. pusilla. "Both preoccupied").

1910 B, 63.

Cope, E. D. 1870 U, 316 (*Lithichthys pusillus*.
This species?).

Dollo, L. 1904 C, 161 (*Copeichthys humilis*).

Eastman, C. R. 1912 B, 378.

Hussakof and Bryant 1919 A, 198 (*K. humilis*).

Jordan, D. S. 1905 A, ii, 52, fig. 41 (*Diplomystus*
humilis).

1910 A, 23, 24, pl. vii.

Merrill, G. P. 1907 A, 8 (*Clupea humilis*); 10
(*Diplomystus humilis*).

Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 9.

Woodward, A. S. 1901 A, 144 (*Diplomystus*
humilis).

Eocene (Green River); Wyoming.

XYNE Jordan and Gilbert. Type *X. grex* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 25.

Jordan, D. S. 1920 C, 568.

1921 A, 242.

Jordan and Gilbert 1920 A, 9 (*Xyne*); 11
(*Ellimma*).

***Xyne fitgeri* Jordan and Gilbert, J. Z**

Jordan and Gilbert 1920 A, 10, pls. iv, v.

Jordan, D. S. 1921 A, 243.

Miocene (Monterey); California.

Xyne grex Jordan and Gilbert.

Jordan and Gilbert 1919 A, 25, pl. ix, fig. 1;
pl. x, fig. 2; pl. xi, figs. 2, 3.
Hubbs, C. L. 1924 A, 178.
Jordan, D. S. 1920 A, 18, fig. 2.
1921 A, 239, 242, pl. xviii.

Jordan, D. S. 1922 D, 272, fig. 2.
1925 B, 40.
Jordan and Gilbert 1920 A, 9, pls. i-iii.
Rogers, A. F. 1924 A, 545.
Woodward, A. S. 1921 C, 181.
Miocene (Monterey); California.

QUISQUE Jordan. Type *Q. gilberti* Jordan.

Jordan, D. S. 1920 C, 571.
Jordan, D. S. 1921 A, 246.

Quisque bakeri Jordan

Jordan, D. S. 1922 A, 249, figs. 1, 2.
Miocene (Lower); Texas.

Quisque gilberti Jordan.

Jordan, D. S. 1920 C, 571.
1921 A, 245, pl. xx, fig. a.
Miocene (Monterey); California.

XYRINIUS Jordan and Gilbert. Type *X. houshi* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 50.
Jordan, D. S. 1920 C, 560.
1921 A, 244.

Xyrinius barbaræ (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 27, pl. ix, fig. 3
(Ellimma).
Jordan, D. S. 1921 A, 244.
Jordan and Gilbert 1920 A, 11 (Ellimma).
Miocene (Monterey); California.

Xyrinius elmodenæ (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 26, pl. xii, fig. 1
(Ellimma).
Jordan, D. S. 1921 A, 241, pl. xix.
Jordan and Gilbert 1920 A, 11 (Ellimma).
Miocene (Monterey); California.

Xyrinius houshi Jordan and Gilbert.

Jordan and Gilbert 1919 A, 50, pl. xxi, fig. 2.
Jordan, D. S. 1921 A, 244.
Miocene (Monterey); California.

ALISEA Jordan and Gilbert. Type *A. grandis* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 28.

Alisea grandis Jordan and Gilbert.

Jordan and Gilbert 1919 A, 28, pl. xvii, fig. 3.
Jordan, D. S. 1921 A, 245, pl. xxvii, fig. b.
Miocene; California.

DIRADIAS Jordan. Type *D. aratus* Jordan.

Jordan, D. S. 1924 B, 42.
1925 B, 8.

Diradias aratus Jordan.

Jordan, D. S. 1924 B, 42, pl. F.
1925 B, 8.
1927 B, 89.
Miocene (Monterey); California.

Diradias fenestralis Jordan.

Jordan, D. S. 1925 B, 9, pl. i.
Jordan and Gilbert 1920 A, 17, pl. ix (Thyrion
velox, in part).
Miocene (Monterey); California.

XENOTHRISSA Jordan. Type *X. aphrasta* Jordan.

Jordan, D. S. 1925 B, 10.

Xenothrissa aphrasta Jordan.

Jordan, D. S. 1925 B, 10-49, pl. ii.
Miocene (Monterey); California.

LEMBICUS Jordan. Type *L. meiklejohni* Jordan.

Jordan, D. S. 1925 B, 42.

Lembicus meiklejohni Jordan.

Jordan, D. S. 1925 B, 42.
Miocene (Puente); California.

EPELICHTHYS Jordan. Type *E. michaëlis* Jordan.

Jordan, D. S. 1925 B, 48.

Epelichthys michaëlis Jordan.

Jordan, D. S. 1925 B, 48, pl. 20.
Upper Miocene (San Miguel); California.

ENGRAULIDIDÆ Gill.

- Gill, T.* 1872 C, 17.
Cockerell, T. D. A. 1913 B, 123.
Günther, A. C. 1868 A, vii, 383 (Engraulidina).
Jordan, D. S. 1925 B, 12 (Engraulidæ).
Jordan and Evermann 1896 A, 439 (Engraulididæ).
Jordan and Gilbert 1882 A, 271 (Engraulididæ).

ENGRAULITES Jordan and Gilbert. Type *E. remifer* Jordan and Gilbert.

- Jordan and Gilbert, J. Z.*, in *Jordan, D. S.* 1925 B, 12.
Engraulites remifer Jordan and Gilbert.
Jordan and Gilbert, J. Z., in *Jordan, D. S.* 1925 B, 12, pl. iii.
 Miocene (Monterey); California.

DUSSUMIERIIDÆ Gill.

- Gill, T.* 1872 B, 17.
Günther, A. C. 1868 A, 464 (Dussumieriinae).
Jordan, D. S. 1885 A, 136 (Dussumieriinae).
 1905 A, ii, 52.
 1923 A, 121.
 1925 B, 41.
Jordan and Evermann 1896 A, 417 (Dussumieriinae).
Jordan and Gilbert 1882 A, 263 (Dussumieriinae).
Jordan and J. Z. Gilbert 1919 A, 30.
Smithites elegans Jordan and Gilbert.
Jordan and Gilbert 1919 A, 30, pl. xxix, fig. 3.
Duncker, G. 1923 A, 39.
Jordan, D. S. 1925 B, 42.
 1926 B, 221, 223.
 1927 A, 191.
 1927 B, 97.
 This supposed species is not, as was originally believed, an American fish, but is *Clupea elongata* of Steindachner, an Austrian fossil form.

QUÆSITA Jordan and Gilbert. Type *Q. quisquilia* Jordan and Gilbert.

- Jordan and Gilbert* 1919 A, 30, 31.
Jordan, D. S. 1921 A, 246.
 1921 B, 462.
Quæsita alhambræ Jordan and Gilbert.
Jordan and Gilbert 1920 A, 43, pl. xxviii.
Jordan, D. S. 1921 A, 247.
 Miocene; California.
Quæsita fragilis Jordan and Gilbert.
Jordan and Gilbert 1920 A, 43.
Jordan, D. S. 1921 A, 247, pls. xiv b, xxiii, fig. b.
 Miocene?; California.
Quæsita quiescens Jordan.
Jordan, D. S. 1925 B, 11, pl. iii.
 Miocene (Monterey); California.
Quæsita quisquilia Jordan and Gilbert.
Jordan and Gilbert 1919 A, 30, 32, pl. viii, fig. 3; pl. x, fig. 2; pl. xvii, fig. 1.
Jordan, D. S. 1921 A, 246, pl. xxii, fig. a.
 1925 B, 12.
 Miocene (Monterey); California.

STERNBERGIA Jordan and Gilbert. Type *S. waitei* Jordan and Gilbert.

- Jordan and Gilbert, J. Z.*, in *Jordan, D. S.* 1925 B, 41.
Sternbergia waitei Jordan and Gilbert.
Jordan and Gilbert, J. Z., in *Jordan, D. S.* 1925 B, 41, pl. xx.
 Miocene (Puente); California.

LYGISMA Jordan and Gilbert. Type *L. tenax* Jordan and Gilbert.

- Jordan and Gilbert* 1919 A, 33.
Jordan, D. S. 1921 A, 248.
 1921 B, 462.
Lygisma tenax Jordan and Gilbert.
Jordan and Gilbert 1919 A, 33, pl. viii, fig. 2; pl. xiv, fig. 1.
Jordan, D. S. 1921 A, 248, pl. xxi, fig. a.
 1925 B, 42.
Jordan and Gilbert 1920 A, 12.
 Miocene (Monterey); California.

Superfamily GONORHYNCHOIDÆ, new form.

- Carus, V.* 1875 A, 576 (Gonorhynchoidei).
Gill, T. 1893 A, 131 (Gonorhynchoidei).
Regan, C. T. 1909 B, 77 (Gonorhynchoidei, as suborder).

GONORHYNCHIDÆ Richardson.

- Richardson, J.* 1856 A, 254.
Hay, O. P. 1902 A, 392.
Allis, E. P. 1909 A, 214 (Gonorhynchus).
Ardt, T. 1907 D, 656.
 1923 A, 504.
Boulenger, G. A. 1902 C, 389.

Boulenger, G. A. 1904 A, 165.
1904 D, 572.

Cockerell, T. D. A. 1923 A, 120.

Cope, E. D. 1871 T, 455.

Dean, Gudger, Henn 1923 A, 594, 634.

Dietz, P. A. 1917 A, 84.

Eastman, C. R. 1917 A, 289.

Frost, G. A. 1925 A, 161, pl. xiii (Gonorynchus).

Gill, T. 1885 C, 137.

Gregory, W. K. 1907 D, 471.

Günther, A. C. 1868 A, 373.

1881 A, 693.

Hubbs, C. L. 1919 B, 65.

Jordan, D. S. 1885 A, 137.

1905 A, ii, 54, 572.

1907 B, 280.

1923 A, 120 (Gonorhynchidæ, Notogoneidæ).

Meek, A. 1916 A, 63.

Ogilby, J. D. 1911 A, 30.

Ridewood, W. G. 1904 A, 59 (Gonorhynchus).

1905 A, 361.

Woodward, A. S. 1898 H, 413.

1901 A, ix, 6, 271.

Zittel and Schlosser 1923 A, 126.

Zittel and Woodward 1902 A, 100.

NOTOGONEUS Cope. Type *N. osculus* Cope.

Hay, O. P. 1902 A, 392 (Notogoneus); 394 (Procatostomus).

Arlt, T. 1923 A, 504.

Boulenger, G. A. 1904 D, 572.

Cockerell, T. D. A. 1916 A, 899.

1923 A, 120.

Eastman, C. R. 1917 A, 289.

Haseman, J. D. 1912 A, 98.

Jordan, D. S. 1923 A, 120.

Meek, A. 1916 A, 63.

Priem, F. 1900 A, 846.

1907 C.

Woodward, A. S. 1898 H, 413.

1901 A, ix, 275.

Zittel and Schlosser 1923 A, 126.

Zittel and Woodward 1902 A, 100.

Notogoneus osculus Cope.

Hay, O. P. 1902 A, 392 (*N. osculus*); 394 (Procatostomus constablei).

Cockerell, T. D. A. 1916 A, 899.

Dean and Eastman 1917 A, 623 (Procatostomus constablei a syn.).

Eastman, C. R. 1917 A, 289, fig. 9.

Hussakof, L. 1908 A, 83, fig. 43.

Jordan, D. S. 1905 A, ii, 56, fig. 44.

1907 B, 281, fig. 215.

Jordan and Gilbert 1919 A, 63.

Woodward, A. S. 1901 A, 275.

Eocene (Green River); Wyoming.

Superfamily STOMIATOIDÆ, new form.

Jordan, D. S. 1923 A, 126 (Enchodontoidei, Stomatoidæ).

Regan, C. T. 1909 B, 82 (Stomiatoidei).

1923 A, 612 ("stomatoid fishes").

GONOSTOMATIDÆ Regan.

Regan, C. T. 1923 A, 613.

Boulenger, G. A. 1904 D, 571 (Gonostomatinae).

Goodrich, E. S. 1909 A, 395 (Gonostomatinae).

Günther, A. C. 1864 A, 391 (Chauliodontina, in part).

Jordan, D. S. 1905 A, 129 (Gonostomidæ).

1921 A, 249.

1923 A, 127.

Jordan and Evermann 1896 A, 578 (Gonostominae).

Regan, C. T. 1923 A, 613.

AZALOIS Jordan and Gilbert. Type *A. angelensis* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 32.

Jordan, D. S. 1921 A, 249.

Azalois angelensis Jordan and Gilbert.

Jordan and Gilbert 1919 A, 32, pl. xv, fig. 2.

Jordan, D. S. 1921 A, 249, pl. xxiii, fig. a.

Miocene (Monterey); California.

ENCHODONTIDÆ.

Lydekker, R., in Nicholson and Lydekker 1899 A, 997.

Hay, O. P. 1902 A, 388.

Arlt, T. 1923 A, 516 ("enchodontiden").

Boulenger, G. A. 1904 A, 169.

1904 D, 608.

Cockerell, T. D. A. 1919 A, 183.

Dean, Gudger, Henn 1923 A, 641.

Fowler, H. W. 1911 A, 157.

Gregory, W. K. 1907 D, 488.

Hay, O. P. 1903 G, 691.

Jordan, D. S. 1905 A, ii, 136, 568.

1907 B, 359.

1923 A, 126.

Kruizinga, P. 1924 A, 311.

Loomis, F. B. 1900 A, 297 (Enchodidæ).

Regan, C. T. 1909 B, 82.

1911 B, 120.

1911 D, 320.

Schlosser, M. 1917 A, 139, 140 ("enchodontiden").

Stromer, E. 1917 A, 23.

Woodward, A. S. 1901 A, 6, 189.

1906 C, 280.

Zittel and Koken 1911 A, 125.

Zittel and Schlosser 1923 A, 130.

Zittel and Woodward 1902 A, 98.

ENCHODUS Agassiz. Type *Esox lewesiensis* Mantell.

- Agassiz, L. 1843 B (1835), 55 (feuilleton).
 Hay, O. P. 1902 A, 388.
 Andreae, A. 1904 A, 309.
 Berry, E. W. 1916 A, 356.
 Bronn, H. G. 1848 A, 459.
 1849 A, 676.
 Cope, E. D. 1880 U, 147.
 Coulon, L. 1903 A, 153.
 Davis, J. W. 1887 C, 601 (*Eurygnathus*, type *E. ferox* Davis).
 Dollo, L. 1892 F, 183, figs. 2-4.
 Eastman, C. R. 1912 B, 377.
 Fowler, H. W. 1911 A, 157.
 Gervais, P. 1852 A, explan. pl. lxx.
 1859 A, 522, pl. lxx, fig. 3.
 Giebel, C. G. 1855 A, 104.
 Green, W. R. 1913 A, 71.
 Hay, O. P. 1903 A, 66.
 Heckel, J. J. 1849 in Russegger's Reisen, ii, pt. iii, 342 (*Isodus*, type *I. sulcatus* Heckel).
 Hennig, E. 1912 A, 490 (*Euechodus*).
 Kramberger, D. G. 1881 A, 373 (*Solenodon*, type *S. neocomiensis* Kramb.).
 1885, Rad. Jugoslav. Akad., lxxii, 18 (*Holcodon*, type *H. lycodon*).
 Krause, P. G. 1901 A, 120 (*Euechodus*, *Phasganodus*).
 Kruizinga, P. 1924 A, 297, 309.
 Mantell, G. A. 1844 A, 668.
 Marek, W. 1858, Zeitschr. deutsh. geol. Gesellsch., x, 248 (*Ischyrocephalus*, type *I. gracilis* Marek).
 Priem, F. 1908 B, 52, pl. i, figs. 10, 11.
 Sternberg, C. H. 1881 B, 4.
 Storms, R. 1891 A, 142, 152.
 1892 A, 1.
 Woodward, A. S. 1901 A, 190.
 1907 A, 193.
 1912 A (1902), 55.
 1912 A (1903), 57, pl. xiv; text-figs. 13, 14.
 Zittel and Koken 1911 A, 126.
 Zittel and Schlosser 1923 A, 130.
 Zittel and Woodward 1902 A, 98.

Enchodus amicrodus Stewart.

- Hay, O. P. 1902 A, 388.
 Green, W. R. 1913 A, 71, 81, 91, pl. x.
 Woodward, A. S. 1901 A, 203.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus anceps Cope.

- Hay, O. P. 1902 A, 389.
 Woodward, A. S. 1901 A, 203.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus calliodon Cope.

- Hay, O. P. 1902 A, 389.
 Woodward, A. S. 1901 A, 203.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus carinatus (Cope).

- Hay, O. P. 1902 A, 389.
 Woodward, A. S. 1901 A, 204.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus dirus (Leidy).

- Hay, O. P. 1902 A, 390 (*Cimolichthys*).
 Berry, E. W. 1916 A, 357, pl. ix, figs. 3-5.
 Green, W. R. 1913 A, 77, 81, 88, pl. vi, figs. 3, 4.
 Woodward, A. S. 1901 A, 204.
 Cretaceous (Fox Hills); North Dakota: (Monmouth); Maryland.

Enchodus dolichus Cope.

- Hay, O. P. 1902 A, 389.
 Green, W. R. 1913 A, 71, 78, 82, 95, pls. xi-xiv; pl. xv, figs. 10, 12.
 Hay, O. P. 1903 A, 72, text-figs. 52, 53.
 Hussakof, L. 1908 A, 71, fig. 38.
 Woodward, A. S. 1901 A, 204.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus ferox Leidy.

- Hay, O. P. 1902 A, 389 (*E. ferox*, *E. pressidens*).
 Fowler, H. W. 1911 A, 158, figs. 95-97 (*E. ferox*); 161 (*E. pressidens*).
 Green, W. R. 1913 A, 81.
 Hay, O. P. 1903 A, 68, text-fig. 50.
 Hussakof, L. 1908 A, 72.
 Woodward, A. S. 1901 A, 204 (*E. ferox*), 205 (*E. pressidens*).
 Upper Cretaceous (Navesink, Woodbury, Manasquan?); New Jersey.

Enchodus gentryi (Cope).

- Hay, O. P. 1902 A, 389.
 Fowler, H. W. 1911 A, 163.
 Hussakof, L. 1908 A, 72.
 Woodward, A. S. 1901 A, 615 (*Phasganodus*).
 Miocene (Kirkwood); New Jersey.

Enchodus gladiolus Cope.

- Hay, O. P. 1902 A, 389.
 1903 A, 75, text-figs. 56, 57.
 Hussakof, L. 1908 A, 72.
 Woodward, A. S. 1901 A, 204.
 Cretaceous (Niobrara); Kansas.

Enchodus oxytomus Cope.

- Hay, O. P. 1902 A, 389.
 Fowler, H. W. 1911 A, 164.
 Woodward, A. S. 1901 A, 204.
 Upper Cretaceous (Navesink); New Jersey.

Enchodus parvus Stewart.

- Hay, O. P. 1902 A, 389.
 Woodward, A. S. 1901 A, 204.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus petrosus Cope.

- Hay, O. P. 1902 A, 389.
 Green, W. R. 1913 A, 75, 81, 82; pls. i-v; pl. vi, figs. 1, 2; pls. vii-ix; pl. xv, figs. 14, 15.
 Hay, O. P. 1903 A, 70, text-figs. 51, 59, 62.
 Hussakof, L. 1908 A, 73.
 Woodward, A. S. 1901 A, 205.
 Cretaceous (Niobrara); Kansas.

Enchodus sævus Hay.

- Hay, O. P. 1903 A, 76, text-figs. 58, 60, 61, 63, 64, 65.
 Green, W. R. 1913 A, 73, 82, pls. viii, ix (Syn. of *E. petrosus*).
 Hussakof, L. 1908 A, 73.
 Zittel and Schlosser 1923 A, 130, fig. 227.
 Cretaceous (Niobrara); Kansas.

Enchodus semistriatus Marsh.

- Hay, O. P. 1902 A, 389.
 Fowler, H. W. 1911 A, 162.
 Woodward, A. S. 1901 A, 205.
 Upper Cretaceous (Navesink?); New Jersey.

Enchodus serrulatus Fowler.

- Fowler, H. W. 1911 A, 162, fig. 98. Upper Cretaceous (Manasquan); New Jersey.

Enchodus shumardi Leidy.

- Hay, O. P. 1902 A, 389 (*E. shumardii*).
 Green, W. R. 1913 A, 71, 82, 104, pl. xv, figs. 1-13 (*E. shumardii*).

- Lambe, L. M. 1904 C, 21, 36, 44.
 McInnes, W. 1913 A, 67.
 Merrill, G. P. 1907 A, 11.
 Woodward, A. S. 1901 A, 205.
 Cretaceous (Niobrara); Manitoba.

Enchodus tetræcus Cope.

- Hay, O. P. 1902 A, 389.
 Fowler, H. W. 1911 A, 163, fig. 99.
 Hay, O. P. 1903 A, 74, text-figs. 54, 55.
 Hussakof, L. 1908 A, 73.
 Woodward, A. S. 1901 A, 205.
 Upper Cretaceous (Navesink?); Delaware, New Jersey.

Enchodus sp. indet.

- Hay, O. P. 1902 A, 389.
 Cockerell, T. D. A. 1919 A, 184. Upper Cretaceous (Colorado shale); Montana.
 Fowler, H. W. 1911 A, 164, 165, figs. 100-102 (Various undetermined species from New Jersey).
 Gidley, J. W. 1926 F, 192, pl. lxxi.
 Upper Cretaceous (Ripley); Tennessee.

TETHEODUS Cope. Type *T. pephredo* Cope.

- Hay, O. P. 1902 A, 389.
 Krause, P. G. 1901 A, 120.
 Woodward, A. S. 1901 A, 190 (Syn? of *Enchodus*).
 1912 A (1902), 55 (Syn? of *Enchodus*).

Tetheodus pephredo Cope.

- Hay, O. P. 1902 A, 389.
 Woodward, A. S. 1901 A, 205.
 Cretaceous (Niobrara); Kansas.

HALECODON Cockerell. Type *H. denticulatus* Cockerell.

- Cockerell, T. D. A. 1919 A, 183.

Halecodon denticulatus Cockerell.

- Cockerell, T. D. A. 1919 A, 183, pl. xxxvi, fig. 7.
 Upper Cretaceous (Aspen); Wyoming.

Superfamily OSTEOGLOSSOIDÆ, new form.

- Gill, T. 1893 A, 130 (Osteoglossoidea).
 Jordan, D. S. 1923 A, 123 (Osteoglossoidea).
 Regan, C. T. 1909 B, 77 (Osteoglossoidei).

OSTEOGLOSSIDÆ Bonaparte.

- Bonaparte, C. L. 1846, Cat. Met. Pesci Europei, 7.
 Hay, O. P. 1902 A, 393.
 Allis, E. P. 1909 A, 214 (Osteoglossum).
 Arltdt, T. 1907 D, 670.
 1912 A, 679, 716.
 1923 A, 498 ("osteoglossiden").
 Baudelot, E. 1873 A, 110 (Osteoglossum).
 Boulenger, G. A. 1901 C, 514.
 1904 A, 164.
 1904 D, 555, 749.
 1917 B, 330.
 Bridge, T. W. 1896 A, 644.
 Carus, V. 1875 A, 576 (Osteoglossoidei).
 Cockerell, T. D. A. 1910 D, 111.
 1911 D, 39.
 1913 B, 125.
 Cope, E. D. 1872 C, 329, 333.
 Dean, Gudger, Henn 1923 A, 693.
 Eastman, C. R. 1917 A, 288.
 Frost, G. A. 1925 A, 159, pl. xii.
 Gill, T. 1885 C, 142.
 Goodrich, E. S. 1909 A, 390.
 Gregory, W. K. 1907 D, 469.
 Günther, A. C. 1866 A, 377.
 1881 A, 693.
 Jordan, D. S. 1885 A, 143.
 1905 A, ii, 56, 584.
 1907 B, 282, 379.
 1923 A, 123.
 1925 A, 232 (Osteoglossidæ, Phareodontidæ).
 Leunis and Ludwig 1883 A, 755.
 Loomis, F. B. 1921 A, 194.
 Meek, A. 1916 A, 59.
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1910 A, 356.
 1916 B, 546.
 Ridewood, W. G. 1904 A, 61.
 1905 C, 252.
 Schlosser, M. 1917 A, 144.
 Siebenrock, F. 1901 A, 108.
 Steinmann, G. 1927 A, 81 ("osteoglossiden").
 Tanner, V. M. 1925, Bull. Univ. Utah, xiv, No. 6, 7 (Phareodontidæ).
 Terra, P. 1911 A, 209.
 Wallace, A. R. 1876 A, ii, 454.
 Woodward, A. S. 1898 B, 117.

Woodward, A. S. 1899 C, 361.
1901 A, vii, 4, 73.
1923 B, 297.

Zittel and Koken 1911 A, 121.
Zittel and Schlosser 1923 A, 126.
Zittel and Woodward 1902 A, 97.

PHAREODUS Leidy. Type *P. acutus* Leidy.

Hay, O. P. 1902 A, 393.
Allis, E. P. 1923 A, 46 (*Osteoglossum*).
Arlt, T. 1923 A, 498.
Boulenger, G. A. 1901 C, 515 (*Dapedoglossus*).
1904 D, 557 (*Dapedoglossus*).
Cockerell, T. D. A. 1910 D, 111 (*Dapedoglossus*).
Eastman, C. R. 1917 A, 288 (*Dapedoglossus*).
Haseman, J. D. 1912 A, 98 (*Dapedoglossus*).
Jordan, D. S. 1905 A, ii, 56, 586.
1907 B, 282.
1923 A, 123.
1925 A, 232.
Matthew, W. D. 1915 A, 298 (*Dapedoglossus*).
Meek, A. 1916 A, 59 (*Dapedoglossus*).
Seeley, H. G. 1886 A, 412 (*Dapedoglossus*).
1899 C, 361 (*Dapedoglossus*).
Woodward, A. S. 1901 A, 74 (*Dapedoglossus*).
Zittel and Woodward 1902 A, 97.

Phareodus acutus Leidy.

Hay, O. P. 1902 A, 393.
Cockerell, T. D. A. 1908 C, 175.
Jordan, D. S. 1907 B, 283.
1925 A, 233.
Woodward, A. S. 1901 A, 75 (*Dapedoglossus*).
Middle Eocene (Bridger); Wyoming.

Phareodus æquipinnis (Cope).

Hay, O. P. 1902 A, 393.
Cockerell, T. D. A. 1908 C, 175.
Hussakof, L. 1908 A, 87.
Jordan, D. S. 1907 B, 283.
Merrill, G. P. 1907 A, 9 (*Dapedoglossus*).

Woodward, A. S. 1901 A, 75 (*Dapedoglossus*).
Lower Eocene (Green River); Wyoming.

Phareodus encaustus (Cope).

Hay, O. P. 1902 A, 393.
Cockerell, T. D. A. 1908 C, 175.
Hussakof, L. 1908 A, 87.
Jordan, D. S. 1905 A, ii, 57.
1907 B, 283.
Woodward, A. S. 1901 A, 76 (*Dapedoglossus*).
Lower Eocene (Green River); Wyoming.

Phareodus testis Cope.

Hay, O. P. 1902 A, 393.
Boulenger, G. A. 1904 D, 556, fig. 335 (*Dapedoglossus*).
Cockerell, T. D. A. 1908 C, 175.
1911 D, 39.
Eastman, C. R. 1917 A, 288 (*Dapedoglossus*).
Hussakof and Bryant 1919 A, 198.
Jordan, D. S. 1905 A, ii, 56, fig. 45.
1907 B, 283, fig. 216.
1925 A, 232, 233.
Merrill, G. P. 1907 A, 9, 10 (*Dapedoglossus*).
Tanner, V. M. 1925, Bull. Univ. Utah, xiv,
No. 6, 7 (Syn. of *P. acutus*).
Woodward, A. S. 1901 A, 75 (*Dapedoglossus*).
Lower Eocene (Green River); Wyoming.

Phareodus? sp. indet.

Jordan, D. S. 1907 A, 126. Upper Cretaceous
(Chico); California.

EURYCHIR Jordan. Type *E. lindleyi* Jordan.

Jordan, D. S. 1925 A, 232.

Eurychir lindleyi Jordan.

Jordan, D. S. 1925 A, 232, pls. xxii, xxiii. Upper
Cretaceous (Niobrara); Kansas.

Superfamily SALMONOIDÆ, new form.

Frost, G. A. 1925 A, 156 (*Salmonoidea*).
Jordan, D. S. 1905 A, ii, 41, 61 (*Salmonoidea*).

Jordan, D. S. 1907 B, 268 (*Salmonoidea*).
1923 A, 124 (*Salmonoidei*).

SALMONIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 95, 115.
Hay, O. P. 1902 A, 392.
Agassiz, L. 1832 A, 142 ("salmoniden").
1856 C, 63.
Agassiz and Vogt 1845 A ("salmones").
Allis, E. P. 1909 A, 201.
Arlt, T. 1907 D, 680.
1912 A, 716, 762.
1923 A, 503 ("salmoniden").
Belling, D. E. 1912 A, 60 ("salmoniden").
Bonaparte, C. L. 1833 B, 1201.
1838 B, 132.
Boulenger, G. A. 1895 B, 299.
1904 A, 164.
1904 D, 565, 754.
1917 B, 329, 330.
1917 D, 1043.

Braus, H. 1906 A, 173 ("salmoniden").
1919 A, 30.
Bridge, T. W. 1896 A, 550.
Brohl, E. 1909 A, 372 ("salmoniden").
Bronn, H. G. 1849 A, 780 seq. (*Salmones*).
Bruch, C. 1862 A.
Carus, V. 1875 A, 573 (*Salmonoidei*).
Carus and Engelmann 1861 A, 1798.
Cockerell, T. D. A. 1913 B, 125.
Collinge, W. E. 1895 B, 290.
Cope, E. D. 1871 T, 455.
Cunningham, J. T. 1886 A, 222.
1897 A, 493.
1912 A, 246, 265.
Cuvier, G. 1805 A ("saumons").
Dahl, K. 1909 A, 765.
Dawson, J. W. 1894 C, 267.

- Dean, Gudger, Henn 1923 A, 699.
 Dietz, P. A. 1917 A, 85.
 Derjugin, K. 1910 A, 586 (Salmo).
 Duméril, A. 1856 A, 445 ("salmonides").
 Ebner, V. 1896 A, 127 ("salmoniden").
 Fitzinger, L. J. 1873 A, 37 (Salmones).
 Fulton, T. W. 1906 A, 76.
 Fryd, C. 1901 A, 33.
 Gaupp, E. 1898 B, 823 ("salmoniden").
 1903 A, 119, fig. 1 (Salmo).
 1911 A, 414 (Salmo).
 Gill, T. 1875 B, 252.
 1885 C, 146.
 Goette, A. 1879 A, 128 ("salmoniden").
 Goodrich, E. S. 1909 A, 393.
 Gregory, W. K. 1907 D, 471.
 Haller, B. 1906 A, 233 ("salmoniden").
 Hase, A. 1907 A, 633 ("salmoniden").
 Hoek, P. P. C. 1910 A, 432 ("zalmen").
 Hoernes, R. 1886 A, 530.
 Hubbs, C. L. 1926 A, 73 ("salmonoids").
 Huxley, T. H. 1855 A, 84.
 1859 H, 38.
 1883 B, 564, 567.
 Jaekel, O. 1906 A, 24, fig. 16 (Salmo).
 Johnston, H. W. 1905 A, 63 ("salmon").
 1907 A, 54 ("salmon").
 1910 A, 21 ("salmon").
 Jordan, D. S. 1885 A, 146.
 1905 A, ii, 61, 590.
 1907 B, 285.
 1923 A, 124.
 Jordan and Gilbert 1882 A, 288.
 Klaatsch, H. 1890 A, 155 ("salmoniden").
 Klein, E. F. 1868 A ("salmonen").
 1884 A, 135, 138, 147, 148, 153, 169, 199, 228,
 246, 248.
 1885 A, 109, 130, 145, 188, 212, 241.
 1886 A, 224, 258, 292.
 Kner, R. 1861 A, 244 (Salmonides).
 Kolzoff, N. K. 1896 A, 516.
 Köstlin, O. 1844 A ("salmonen").
 Krause, P. G. 1901 A, 120 ("salmoniden").
 Leunis and Ludwig 1883 A, 747.
 Lönnberg, E. 1902 A (Salmones).
 Maedonald, W. 1863 A, 63.
 MeMurrieh, J. P. 1910 A, 23.
 Mayhoff, H. 1914 A, 403 ("salmoniden").
 Meekel, J. F. 1825 A ("lachse").
 Meek, A. 1916 A, 112.
 Miall, L. C. 1872 A, 26.
 Milne, J. A. 1913 A, 572 ("salmon").
 Müller, J. 1841 B, eliii ("salmonen").
 1845 A, 102, 136 (Salmones).
 Owen, R. 1868 A, 907.
 Pouehet, G. 1878 A, 59 (Salmones).
 Pyehlau, W. 1908 A, 693 ("salmoniden").
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1910 A, 356.
 1913 D, 289.
 1914 A, 405.
 Riehardson, J. 1836 A, 137 (Salmonoidea).
 Ridewood, W. G. 1904 A, 58.
 Ryder, J. 1886 A, 72 ("salmonoids").
 Sagemehl, M. 1884 A, 101 ("salmoniden").
 Seheel, C. 1893 A, 1 ("salmoniden").
 Shepherd, C. E. 1914 A, 267.
 Siebenroek, F. 1901 A, 108.
 Stannius, H. 1854 A (Salmones).
 Starks, E. C. 1904 B, 601 ("salmonoids").
 Stephan, P. 1900 A, 301 ("salmones").
 Szily, A. 1907 A, 347 ("forelle").
 Terra, P. 1911 A, 210.
 Trouessart, E. L. 1906 A, 212.
 Turnbull, H. 1909 A, 1095, 1119, 1175.
 Vogel, R. 1909 A, 499 ("salmoniden").
 Wallae, A. R. 1876 A, ii, 447.
 Wagner, R. 1843 A ("lachse").
 Willeox, M. A. 1899 A, 153.
 Williamson, W. C. 1851 A, 694.
 Woodward, A. S. 1901 A, viii, 5, 159.
 1922 C, 98.
 Zittel and Koken 1911 A, 121.
 Zittel and Schlosser 1923 A, 126.
 Zittel and Woodward 1902 A, 97.

SALMO Linn. Type *S. salar* Linn.

- Linnaeus, C.* 1758 A, 308.
 Abel, O. 1919 A, 46, figs. 20, 22.
 Agassiz and Vogt 1845 A, 1-196, pls. A-O.
 Allis, E. P. 1898 A, 428.
 1898 B, 95.
 1905 A, 452, figs. 24-26.
 1909 A, 214.
 1919 C, 255.
 1922 B, 201.
 Baudelot, E. 1873 A, 97.
 Beer, G. R. 1924 C, 316, figs. 27-29.
 1926 A, 297, figs. 50-61, 115, 121, 132.
 Belling, D. E. 1912 A, 50.
 Böker, H. 1913 A, 361, pls. xxiv-xxvii; text-figs.
 1-10.
 Born, J. 1827 A, 190.
 Boulenger, G. A. 1895 B, 299.
 1904 D, 567, 754.
 1917 D, 1041.
 Braus, H. 1906 A.
 Bronn, H. G. 1848 B, 1109.
 Brueh, C. 1862 A.
 Carlsson, A. 1894 A, 217, 220.
 Cartier, O. 1875 A, 70, pl. iv, figs. 5-9.
 Cockerell, T. D. A. 1911 F, 370.
 1913 B, 125.
 Cockerell and Allison 1909 A, 158, fig. 1.
 Collinge, W. E. 1895 B, 290, pl. xx, figs. 13-15.
 Cope, E. D. 1891 N, 21, fig. 9.
 Cunningham, J. T. 1886 A, 221.
 1912 A, 241.
 Cuvier, G. 1815 A, 115.
 Dahl, K. 1909 A, 766, fig. 4.
 Dean, Gudger, Henn 1923 A, 699.
 Derjugin, K. 1909 A, pl. vi, figs. 56-58.
 1910 A, 609.
 Dietz, P. A. 1914 A, 102.
 Duméril, A. 1856 A, 446.
 Edgeworth, F. H. 1926 A, 185, figs. 19, 20.
 Esdaile, P. C. 1912 A.
 1913 A, 1 ("salmon").
 Fraas, E. 1913 D, lxiii ("lachse").
 Frost, G. A. 1913 A, 221.
 Fulton, T. W. 1906 A, 76, pl. ii B.
 Gaupp, E. 1899 A, 1026, figs. 1, 2 ("lachs").
 1903 A, 119, fig. 1.

- Gaupp, E. 1905 D, 919.
1906 B, 661.
1911 A, 414.
- Gegenbaur, C. 1866 A, 122 ("lachse").
1867 B, 419, pl. ix, fig. 16.
- Giebel, C. G. 1855 A, 108.
- Gill, T. 1885 C, 158.
- Goetsch, W. 1920 A, 13, 15.
- Goette, A. 1879 A, 134.
1901 A, 539.
- Goodrich, E. S. 1904 A, 478.
1906 A, 347.
1909 A, 516, figs.
- Haller, B. 1906 A, 235, pl. xvi, figs. 1-7; pl. xvii, figs. 13-16; text-figs. i-iv.
- Harrison, R. G. 1893 A, 249.
1894 A, 59.
- Hase, A. 1907 A.
- Heckel, J. 1850 A, 364.
1850 B, 146.
- Heilprin, A. 1887 A, 68, 69, 288.
- Heronimus, C. 1911 A, 199, figs. 6-8.
- Hill, C. 1899 A, 356, figs. 1-10.
1900 A, 402, pls. xxviii, xxx.
- Hoek, P. P. C. 1909 A, 485, pls. i, ii.
1910 A, 432.
- Hollard, H. 1864 B, 249 ("saumon").
- Hutton, J. A. 1909 A, pls. i-xiv.
1910 A, pls. i-xxx.
- Huxley, T. H. 1859 H, 37.
1883 B, 568.
- Jaekel, O. 1906 A, 24, fig. 16.
- Johnston, H. W. 1905 A, pls. i-vi ("salmon").
1907 A, 54, pls. i-v ("salmon").
1910 A, 21 ("salmon").
- Jordan, D. S. 1885 A, 158.
1905 B, 547.
- Jordan and Evermann 1917 A, 14.
- Jordan and Gilbert 1882 A, 309.
- Kesteven, H. L. 1922 A, 315.
- Kindred, J. E. 1919 A.
1921 A, 427.
- Kingsley, J. S. 1894 A, 639.
1925 A, 105, 225, figs. 113, 236.
- Klein, E. F. 1879 A, 69, 70, 107.
1884 A, 132, 148, 156, 169, 228, 242, pl. ii.
1885 A, 212, 241.
1886 A, 224, 258, 292.
- Kner, R. 1861 A, 245.
- Köstlin, O. 1844 A.
- Kolzoff, N. K. 1896 A, 515, fig. 2.
- Lebedinsky, N. G. 1917 A, 315.
- Leunis and Ludwig 1883 A, 748.
- Locy, W. A. 1894 A, 179.
- McMurrich, J. P. 1883 A, 634.
- Masterman, A. T. 1913 A, 1-111, pls. i-iv ("salmon").
- Meek, A. 1916 A, 112.
- Mivart, St. G. 1879 B, 540, fig. 10 ("salmon").
- Noorden, C. 1883 A, 235, pl. x.
- Norman, E. W. 1926 A, figs. 41, 52.
- Owen, R. 1845 B, 143, pl. xlviii, fig. 9.
1868 A, 907.
- Paget and Savage 1916 A, 258 ("salmon").
- Parker, W. K. 1879 C, 341 ("salmon").
- Parker and Haswell 1897 A, 183, figs. 806-822.
- Pehrson, T. 1922 A, 9.
- Pychlau, W. 1908 A, 693, pls. xxv, xxvi.
- Rauther, M. 1913 A, 1065, figs. 12-14, 28.
- Reynolds, S. H. 1897 A, 87, 95, 131.
- Richardson, J. 1836 A, 137.
- Sagemehl, M. 1884 A, 78 ("lachse").
- Schauinsland, H. 1906 A.
- Schleip, W. 1904 A, 334.
- Schmalhausen, J. J. 1912 A, 545, 570, pls. xvi, xviii.
1913 C, pls. ii, v.
- Schmid-Monnard, C. 1883 A, 101, pls. vi, vii.
- Sewertzoff, A. N. 1926 D, 87, figs. 17, 18.
- Siebenrock, F. 1901 A, 108.
- Sörensen, W. 1897 A, 180.
- Stannius, H. 1849 A, 538.
1854 A.
- Stöhr, P. 1882 A, 76, pls. ii, iii.
- Swinerton, H. W. 1905 A, 364, pl. xxiii.
- Taylor, H. F. 1916 A, 298.
- Thilo, O. 1896 A, 342 ("lachs").
1913 A, 293 ("lachs").
- Tichomirow, A. 1885 A, 533.
- Turnbull, H. 1909 A, 1095, 1119, 1175, fig.
- Uhlmann, E. 1921 A, 303, 317, 324.
- Vogel, R. 1909 A, 505.
- Wagner, R. 1843 A.
- Wallace, A. R. 1876 A, ii, 447.
- Walther, J. 1882 A, 75 ("lachse").
- Willcox, M. A. 1899 A, 153.
- Williamson, W. C. 1851 A, 694.
- Winslow, G. M. 1898 A, 184.
- Zittel and Koken 1911 A, 121.
- Zittel and Schlosser 1923 A, 126, fig. 23.

Salmo salar Linn.

- Linnaeus, C.* 1758 A, 308.
- Allis, E. P. 1909 A, 214.
- Boulenger, G. A. 1917 D, 1041.
- Cockerell, T. D. A. 1913 B, 125.
- Collinge, W. E. 1895 B, 290, pl. xx, fig. 15.
- Dawson, J. W. 1894 C, 267 (This species?).
- Esdaile, P. C. 1912 A, 6 pls.
1913 A, 1 ("salmon").
- Frost, G. A. 1925 A, 157, pl. xii.
- Gill, T. 1885 C, 158, fig. 99.
- Harrison, R. G. 1893 A, 249, pls. xvi-xviii.
- Jordan, D. S. 1885 A, 158, fig. 99.
1905 B, 546 ("salmon").
- Jordan and Evermann 1896 A, 487.
- Jordan and Gilbert 1882 A, 311.
- Lambe, L. M. 1904 C, 39, 44.
- McMurrich, J. P. 1910 A, 23.
- Milne, J. A. 1913 A, 579, figs. 99-100.
- Reynolds, S. H. 1897 A, 87, figs. 9-11.
- Richardson, J. 1836 A, 145.
- Schleip, W. 1904 A, 334, figs.
- Shepherd, C. E. 1910 B, 295, pl. i, fig. 14.
1914 A, 267.
- Stannius, H. 1854 A, 62.
- Stöhr, P. 1882 A, 76, pls. ii, iii.
- Willcox, M. A. 1899 A, 151.
- Recent; North Atlantic, ascending rivers:
Pleistocene (Late); Quebec.

ONCORHYNCHUS Suckley. Type *Salmo gorbusha* Walbaum.

- Suckley, G.* 1861, Ann. Lye. Nat. Hist. N. Y., vii, 312.
Arlt, T. 1923 A, 503, 504.
Boulenger, G. A. 1917 B, 329.
Cockerell, T. D. A. 1913 B, 125.
Cunningham, J. T. 1886 A, 221.
 1912 A, 310.
Dean, Gudger, Henn 1923 A, 630, 631.
Frost, G. A. 1925 A, 158, pl. xii.
Gilbert, C. H. 1913 A, 1.
 1914 A, 1-22.
Gill, T. 1885 C, 151.
Jordan, D. S. 1885 A, 151.
 1905 A, ii, 68, 583.
 1907 A, 137.
 1919 B, 299.
Jordan and Gilbert 1882 A, 304.
Jordan and Evermann 1896 A, 474.
McMurrich, J. P. 1910 A, 24.
 1913 A, 9.
Meek, A. 1916 A, 126.
Milne, J. A. 1913 A, 572.
Regan, C. T. 1914 A, 407.
- Oncorhynchus tschawytscha** (Walbaum).
Walbaum, J. J. 1792. Artedi Piscium, 71 (Salmo).
Creaser, C. W. 1926 A, 21, 37.
Gilbert, C. H. 1913 A, pls. iv-vii; pl. viii, fig. 15, pl. ix; pl. x, fig. 18; pl. xiv, fig. 25.
 1914 A, 11, pls. iv-x, xiv.
Gill, T. 1885 C, 152, fig. 98.
Hay, O. P. 1927 D, 241.
Jordan, D. S. 1885 A, 152, fig. 98.
 1905 A, ii, 69, figs.
 1907 A, 137, figs. 27-29. (This species?).
Jordan and Gilbert 1882 A, 306, 890 (O. tchawytscha).
Jordan and Evermann 1896 A, 479.
McMurrich, J. P. 1910 A, 24.
 1913 A, 17, pls. v, vi; text-figs. 4, 5.
Milne, J. A. 1913 A, 572, 594, figs. 95, 96, 102, 109-111.
 Recent; California to Alaska and China: Pleistocene (Equus beds); Oregon.

CRISTIVOMER Gill and Jordan. Type *Salmo namaycush* Walbaum.

- Gill and Jordan.* 1878, Bull. U. S. Nat. Mus., xii, 69.
Dean, Gudger, Henn 1923 A, 558.
Hussakof, L. 1916 B, 685.
Jordan, D. S. 1905 A, ii, 114, 565.
Jordan and Evermann 1896 A, 504.
- Cristivomer namaycush** (Walbaum).
Walbaum, J. J. 1782, Artedi Piscium, 68 (Salmo).
Allis, E. P. 1898 A, 434 (Salvelinus).
Baker, F. C. 1920 A, 282, 393.
- Gill, T.* 1885 C, 167 (Salvelinus).
Hay, O. P. 1923 A, 112, 344 (Christivomer, errore).
Hussakof, L. 1916 B, 685.
Jordan, D. S. 1905 A, ii, 114, fig. 78.
Jordan and Evermann 1896 A, 504.
Meek, A. 1916 A, 134.
Regan, C. T. 1914 A, 408, fig. 3 (Salvelinus).
Richardson, J. 1836 A, 179, pl. lxxxv (Salmo).
 Recent; New England to Alaska in the larger lakes: Pleistocene (Sangamon); Wisconsin.

RHABDOFARIO Cope. Type *R. lacustris* Cope.

- Hay, O. P.* 1902 A, 392.
Dean, Gudger, Henn 1923 A, 628.
Jordan, D. S. 1919 B, 356.
Woodward, A. S. 1901 A, 160.
- Rhabdofario lacustris** Cope.
Hay, O. P. 1902 A, 392.
 1927 D, 265, 268.
- Jordan, D. S.* 1905 A, ii, 62, 118.
 1907 B, 286.
 Pleistocene (Idaho); Idaho.
- Rhabdofario** sp. indet.
Hay, O. P. 1927 D, 104, 265. Pleistocene; Idaho.
Russell, I. C. 1902 A, 56. Pleistocene (Idaho); Idaho.

CYCLOLEPIS Geinitz. Type *C. agassizi* Geinitz.

- Geinitz, H. B.* 1868 A, 39, pl. ii, figs. 1, 2.
Cockerell, T. D. A. 1919 A, 181.
Jordan, D. S. 1919 B, 349.
- Cyclolepis stenodinus** Cockerell.
Cockerell, T. D. A. 1919 A, 181, pl. xxxv, fig. 16.
 Upper Cretaceous (Fox Hills); Wyoming.

LEUCICHTHYOPS Cockerell. Type *L. vagans* Cockerell.

- Cockerell, T. D. A.* 1919 A, 180.
- Leucichthyops vagans** Cockerell.
Cockerell, T. D. A. 1919 A, 180, pl. xxxiv, fig. 13; pl. xxxv, figs. 1-15.
- Reeside, J. B.* 1923 A, 205 (Leucichthyops).
 1924 A, 12 (Leucichthyops); pl. iii (Leucichthys).
 Upper Cretaceous (Colorado group); Colorado, Wyoming.

ARGENTINIDÆ Gill.

- Gill, T.* 1885 C, 144.
Cockerell, T. D. A. 1913 B, 126.
Dean, Gudger, Henn 1923 A, 633 (Argentininæ).
- Gill, T.* 1862 B, 14 (Argentinæ).
 1893 A, 131.
 1893 B, 112.

Goode and Bean 1895 A, 51.
 Jordan, D. S. 1885 A, 145.
 1905 A, ii, 122.
 1923 A, 124 (Argentinidæ, Osmeridæ).
 Jordan and Evermann 1896 A, 519.

Jordan and Gilbert 1822 A, 288 (Argentininæ).
 Meek, A. 1916 A, 138 (Argentinæ).
 Regan, C. T. 1911 D, 320.
 1913 D, 289.

MALLOTUS Cuvier. Type *Clupea villosa* Gmelin=*Salmo grandlandicus* Bloch.

Hay, O. P. 1902 A, 392.
 Arldt, T. 1923 A, 503.
 Bronn, H. G. 1848 A, 700.
 Cunningham, J. T. 1886 A, 221.
 Dean, Gudger, Henn 1923 A, 688.
 Duméril, A. 1856 A, 448 ("capelan").
 Giebel, C. G. 1855 A, 109.
 Gill, T. 1862 B, 15.
 1885 C, 145.
 Hoernes, R. 1886 A, 530.
 Jordan and Evermann 1917 A, 130.
 Jordan and Gilbert 1882 A, 291.
 Leunis and Ludwig 1883 A, 751.
 Stannius, H. 1854 A.
 Wallace, A. R. 1876 A, ii, 447.
 Woodward, A. S. 1901 A, 160.

Mallotus villosus (Müller).

Hay, O. P. 1902 A, 392.
 Agassiz, L. 1848 B, 42.
 Ami, H. M. 1897 A, 21, 22, 23.
 1901 C, 53, 54.
 Baker, F. 1920 A, 182.
 Billings, E. 1856 A, 337, 345.
 Boulenger, G. A. 1904 D, 568, fig. 344.
 Bronn, H. G. 1849 A, 672.
 Clapp, F. G. 1908 A, 522.
 Coleman, A. P. 1901 B, 131.
 1901 C, 224.
 Cunningham, J. T. 1886 A, 224.

Dawson, G. M. 1857 A, 408, 415.
 1863 F, 916.
 Dawson, J. W. 1872 B, 402.
 1872 C, 57, 98.
 1894 C, 31, 58, 203, 265, 266, pl. viii, fig. 1.
 Deecke, W. 1913 A, 84.
 Fraser, C. M. 1915 A, 116, pl. x, figs. 36-39.
 Gould, A. A. 1848 A, 64.
 Haug, E. 1911 A, 1876.
 Hay, O. P. 1923 A, 489.
 1927 D, 283.
 Johnston, W. A. 1917 A, 25 ("Mallotus").
 Jordan, D. S. 1885 A, 145.
 1905 A, ii, 126, fig. 85.
 Jordan and Gilbert 1882 A, 291.
 Lambe, L. M. 1904 C, 39, 44.
 1914 F, 298.
 Mantell, G. A. 1844 A, 670.
 Meek, A. 1916 A, 138.
 Owen, R. 1860 E, 150.
 Packard, A. S. 1867 A, 244.
 Richardson, J. 1836 A, 187 [*Salmo* (*Mallotus*)].
 Winan, C. 1913 A, 153.
 Woodward, A. S. 1901 A, 161.
 Zittel and Koken 1911 A, 121.
 Zittel and Schlosser 1923 A, 126.
 Zittel and Woodward 1902 A, 97.
 Recent; Arctic Ocean south to Cape Cod and
 Alaska: Pleistocene; Canada, Maine: Pleisto-
 cene?; Greenland.

OSMERUS Linnæus. Type *O. eperlanus* Linnæus.

Linnæus, C. 1858 A, 310 (Osmeri).
 Arldt, T. 1923 A, 503.
 Boulenger, G. A. 1917 D, 1044.
 Cockerell, T. D. A. 1913 B, 126.
 Dean, Gudger, Henn 1923 A, 693.
 Frost, G. A. 1925 A, 158, pl. xii.
 Fryd, C. 1901 A, 33, fig.
 Gill, T. 1862 B, 15.
 1885 C, 144.
 Goodrich, E. S. 1909 A, 394, 513.
 Günther, A. C. 1866 A, 166.
 Hammarsten, O. D. 1911 A, 669, pl. ix, figs. 2,
 3; text-figs. 1, 2, 4, 11.
 Jordan, D. S. 1885 A, 144.
 1905 A, ii, 123, 127.
 Jordan and Evermann 1896 A, 522.
 Jordan and Gilbert 1882 A, 292.
 Klein, E. F. 1885 A, 212.
 Leunis and Ludwig 1883 A, 751.
 Masterman, A. T. 1913 B, 113, pls. i, ii.
 Meek, A. 1916 A, 140.
 Shepherd, C. E. 1910 B, 292, pl. i, fig. 13.
 Stannius, H. 1854 A.

Osmerus mordax (Mitchill).

Mitchill, S. L. 1815, Trans. Lit. and Phil. Soc.
 N. Y., i, 446 (Atherina).
 Cockerell, T. D. A. 1913 B, 126.
 Coleman, A. P. 1901 C, 224.
 Dawson, J. W. 1894 C, 265.
 Hay, O. P. 1923 A, 287.
 Jordan, D. S. 1885 A, 144, fig. 93.
 1905 A, ii, 123, fig. 82.
 Jordan and Evermann 1896 A, 523.
 Jordan and Gilbert 1882 A, 293.
 Lambe, L. M. 1904 C, 39, 44.
 Recent; coast and rivers from Virginia to
 Gulf of St. Lawrence: Pleistocene (Leda clay);
 Ontario.

Osmerus sp. indet.

Eastman, C. R. 1917 A, 293, pl. xviii, fig. 5
 (This genus?). Tertiary; Montana.

Order INIOMI Gill.

- Gill, T. 1884, Proc. U. S. Nat. Mus., vii, 350.
 Frost, G. A. 1926 A, 466, pl. xx.
 Gill, T. 1893 A, 131.
 Gregory, W. K. 1907 D, 451, 484, 485, 487.
 Hubbs, C. L. 1919 B, 61.
 Jordan, D. S. 1905 A, i, 405; ii, 129, 576.
 1907 B, 352.
 1923 A, 153.
 Jordan and Evermann 1896 A, 530.
 Regan, C. 1909 B, 83.
 1911 B, 120.
 1911 D, 320.
 Starks, E. C. 1904 C, 254.

Superfamily MYCTOPHOIDÆ, new form.

- Frost, G. A. 1926 A, 467, pl. xx (Myctophoidæ). | Regan, C. T. 1911 B, 121 (Myctophoidæ).

MYCTOPHIDÆ Gill.

- Gill, T. 1893 B, 113.
 Unless otherwise indicated the writers below
 cited use for this family the name Scopelidæ.
 Allis, E. P. 1909 A, 201.
 Arambourg, C. 1921 A, 233 (Myctophum).
 Arltdt, T. 1907 D, 681.
 1923 A, 517 ("scopeliden").
 Bassani, F. 1905 A, 19.
 Boulenger, G. A. 1904 D, 611, 755.
 Dean, Gudger, Henn 1923 A, 514 (Myctophidæ).
 Frost, G. A. 1926 A, 467 (Myctophidæ).
 Gill, T. 1885 C, 139.
 Goode and Bean 1895 A, 70 (Myctophidæ).
 Goodrich, E. S. 1909 A, 399.
 Günther, A. C. 1864 A, 393.
 1880 A, 606.
 1881 A, 692.
 Jordan, D. S. 1885 A, 139.
 1905 A, ii, 132, 582 (Myctophidæ); 134
 (Rhinellidæ).
 1923 A, 155 (Myctophidæ); 128 (Rhinellidæ).
 Jordan and Evermann 1896 A, 550 (Mycto-
 phidæ).
 Jordan and Gilbert 1882 A, 279.
 Klein, E. F. 1879 A, 105 (Scopelidæ).
 1884 A, 135, 145, 226.
 1885 A, 145, 212, 241.
 1886 A, 222, 258, 292.
 Meck, A. 1916 A, 412, 414.
 Müller, J. 1845 A, 102, 136 (Scopelini).
 Norman, E. W. 1926 A, 441.
 Rauther, M. 1913 A, 1101.
 Regan, C. T. 1911 B, 128 (Myctophidæ).
 Sagemehl, M. 1884 A, 100 ("scopeliden").
 Schlosser, M. 1917 A, 140, 143, 148 ("scope-
 liden").
 Shepherd, C. E. 1916 A, 182, 184, 204, fig. 157
 (Scopelus).
 Siebenrock, F. 1901 A.
 Staunius, H. 1854 A (Scopolini).
 Woodward, A. S. 1901 A, ix, 6, 235.
 Zittel and Koken 1911 A, 130.
 Zittel and Schlosser 1923 A, 131.
 Zittel and Woodward 1902 A, 99.

RHINELLUS Agassiz. Type *R. furcatus* Agassiz.

- Agassiz, L. 1843 B (1844), ii, 260.
 Hay, O. P. 1902 A, 397 (Ichthyotringa).
 Davis, J. W. 1887 C, 607.
 Hay, O. P. 1903 A, 94.
 Hennig, E. 1912 A, 490.
 Hussakof, L. 1916 C, 348 (Ichthyotringa).
 Jordan, D. S. 1905 A, ii, 134.
 1919 B, 217.
 1923 A, 128, 155 (Rhinellus, Ichthyotringa).
 Pictet and Humbert 1856 A, 44.
 Woodward, A. S. 1901 A, ix, 265 (Ichthyotringa
 a syn.).
 Zittel, K. A. 1890 A, 286.
 Zittel, Eastman, etc. 1902 A, 99.
 Zittel and Koken 1911 A, 130 (Ichthyotringa a
 syn.).
 Zittel and Schlosser 1923 A, 131.
 Zittel and Woodward 1902 A, 99 (Ichthyotringa
 a syn.).
Rhinellus tenuirostris (Cope).
 Hay, O. P. 1902 A, 397 (Ichthyotringa).
 1903 A, 94, pl. iv, figs. 7, 8.
 Hussakof, L. 1908 A, 95.
 Woodward, A. S. 1901 A, 269.
 Upper Cretaceous (Niobrara); S. Dakota.

SARDINIUS Marek. Type *Osmerus cordieri* Agassiz.

- Hay, O. P. 1902 A, 391.
 Cockerell, T. D. A. 1919 A, 184.
 Hay, O. P. 1903 A, 91 (Leptosomus; preoccu-
 pied).
 1903 G, 695 (Leptosomus).
 Woodward, A. S. 1901 A, 247.
 Zittel and Koken 1911 A, 130.
 Zittel and Schlosser 1923 A, 131.
Sardinus? blackburnii Cope.
 Hay, O. P. 1902 A, 391.
 Woodward, A. S. 1901 A, 248 (Sardinus?).
 Oligocene?; South Dakota.
Sardinus? imbellis Hay.
 Hay, O. P. 1903 A, 93, pl. iv, fig. 9.
 Hussakof, L. 1908 A, 96.
 Cretaceous (Niobrara); South Dakota.
Sardinus lineatus Cope.
 Hay, O. P. 1902 A, 391.
 1903 A, 92, pl. iv, fig. 6; pl. v, fig.
 2 (Leptosomus).
 Hussakof, L. 1908 A, 79 (Leptosomus).
 Woodward, A. S. 1901 A, 248.
 Cretaceous (Niobrara); South Dakota.
Sardinus nasutulus Cope.
 Hay, O. P. 1902 A, 391.
 1903 A, 91, pl. iv, figs. 4, 5 (Leptosomus).
 Hussakof, L. 1908 A, 79 (Leptosomus).
 Woodward, A. S. 1901 A, 248.
 Cretaceous (Niobrara); South Dakota.

Sardinius percrassus Cope.

Hay, O. P. 1902 A, 391.

1903 A, 92, pl. v, fig. 3 (Leptosomus).

Hussakof, L. 1908 A, 79 (Leptosomus).

Woodward, A. S. 1901 A, 248.

Cretaceous (Niobrara); South Dakota.

PARALEPIDIDÆ Gill

Gill, T. 1872 C, 16.

Bonaparte, C. L. 1840 A, 302 (Paralepidini).

Dollo, L. 1908 A, 59 (Paralepidæ).

Gill, T. 1885 C, 139.

Goode and Bean 1895 A, 97.

Jordan, D. S. 1905 A, ii, 136 (Paralepidæ).

1921 A, 250 (Paralepidæ).

1923 A, 154 (Paralepidæ).

Jordan and Evermann 1896 A, 599.

Jordan and Gilbert 1882 A, 276.

Regan, C. T. 1911 B, 125 (Sudidæ).

TROSSULUS Jordan. Type *T. exoletus* Jordan.

Jordan, D. S. 1921 A, 250.

Trossulus exoletus Jordan.

Jordan, D. S. 1921 A, 250, pl. viii, fig. c; pl. xxviii, fig. a.

Miocene (Monterey); California.

DRIMYS Jordan. Type *D. defensor* Jordan.

Jordan, D. S. 1925 B, 14.

Drimys defensor Jordan.

Jordan, D. S. 1925 B, 14.

Miocene (Monterey); California.

LESTICHTHYS Jordan. Type *L. porteousi* Jordan.

Jordan, D. S. 1921 A, 250.

Lestichthys porteousi Jordan.

Jordan, D. S. 1921 A, 250, pl. x, fig. b; pl. xxii, fig. b.

Miocene (Monterey); California.

Order HETEROMI Gill.

Gill, T. 1889 D, 1016.

Boulenger, G. A. 1904 D, 621.

Dean, Gudger, Henn 1923 A, 369, 572, 643.

Frost, G. A. 1926 A, 466, 479, pl. xx.

Gill, T. 1889 C, 1016 (Lyopomi).

1893 A, 133.

Goode and Bean 1895 A, 162.

Goodrich, E. S. 1909 A, 416 (Notacanthiformes).

Gregory, W. K. 1907 D, 451, 482.

Jordan, D. S. 1905 A, i, 405; ii, 157.

1907 B, 376.

1923 A, 128.

Jordan and Evermann 1896 A, 612.

Meek, A. 1916 A, 186.

Regan, C. T. 1909 B, 82.

1912 B, 841, 844.

Suborder DERCETIFORMES.

Jordan, D. S. 1923 A, 128 (Hoplopleuri, Dercetiformes).

STRATODONTIDÆ Cope.

Hay, O. P. 1902 A, 387.

Allis, E. P. 1909 A, 201.

Arlt, T. 1907 D, 151, 281.

Cope, E. D. 1872 I, 348.

Cope, E. D. 1880 U, 146 ("stratodontidés").

Jordan, D. S. 1905 A, ii, 137.

1907 B, 360.

1923 A, 128.

STRATODUS Cope. Type *S. apicalis* Cope.

Hay, O. P. 1902 A, 387.

Cockerell, T. D. A. 1919 A, 184.

Dollo, L. 1892 F, 181.

Hennig, E. 1912 A, 490.

Stornis, R. 1891 A, 151, 152.

Woodward, A. S. 1901 A, 188.

Zittel and Woodward 1902 A, 98.

Stratodus apicalis Cope.

Hay, O. P. 1902 A, 387.

Hussakof, L. 1908 A, 102.

Woodward, A. S. 1901 A, 189, 614.

Cretaceous (Niobrara); Kansas.

Stratodus oxypogon Cope.

Hay, O. P. 1902 A, 387.

1903 A, 80, text-figs. 66-68.

Hussakof, L. 1908 A, 102.

Woodward, A. S. 1901 A, 189.

Cretaceous (Niobrara); Kansas.

CIMOLICHTHYS Leidy. Type *C. levesiensis* Leidy.

- Hay, O. P. 1902 A, 387 (Empo); 390 (Cimolichthys).
 Cockerell, T. D. A. 1919 A, 184.
 Cope, E. D. 1880 U, 147 (Empo).
 Dollo, L. 1892 F, 181 (Empo); 182 (Cimolichthys).
 Green, W. R. 1913 A, 73.
 Hay, O. P. 1903 A, 81 (Empo).
 Henning, E. 1912 A, 490.
 Krause, P. G. 1901 A, 120.
 Leriche, M. 1902 B, 140.
 1906 C, 96.
 Moodie, R. L. 1911 G, 278 (Empo).
 Stephan, P. 1900 A, 340 (Empo).
 Storms, R. 1891 A, 151 (Empo); 153 (Cimolichthys).
 Stromer, E. 1917 A, 23.
 Woodward, A. S. 1901 A, 221.
 1912 A (1902), 43.
 Zittel and Koken 1911 A, 126.
 Zittel and Schlosser 1923 A, 131.
 Zittel and Woodward 1902 A, 98 (Cimolichthys); 99 (Empo).

Cimolichthys contractus (Cope).

- Hay, O. P. 1902 A, 387 (Empo).
 Woodward, A. S. 1901 A, 228.
 Upper Cretaceous (Niobrara); Kansas.

Cimolichthys lisbonensis (Stewart).

- Hay, O. P. 1902 A, 38 (Empo).
 Woodward, A. S. 1901 A, 228.
 Upper Cretaceous (Lisbon shales); Kansas.

Cimolichthys merrillii (Cope).

- Hay, O. P. 1902 A, 387 (Empo).
 Woodward, A. S. 1901 A, 228.
 Upper Cretaceous (Niobrara); Kansas.

Cimolichthys nepaholica (Cope).

- Hay, O. P. 1902 A, 387 (Empo).
 Cockerell, T. D. A. 1919 A, 184.
 Cope, E. D. 1875 E, 230, 279, pls. xlix, fig. 9; pl. 1, fig. 8; lii, fig. 1; liii, figs. 3-5; pl. lix, figs. 1-9; pl. lxi, figs. 2-5 (Empo nepaholica).
 Hay, O. P. 1902 B, 745 (Empo).
 1903 A, 81, pl. i, fig. 4; text-figs. 69-72 (Empo).
 Hussakof, L. 1908 A, 66, fig. 35.
 Kruizinga, P. 1924 A, 299, 311 (Empo nepaholica).
 Moodie, R. L. 1911 G, 278, pl. lx, pl. lxii, fig. 2 (Empo).
 1913 A, 249 (Empo).
 Priem, F. 1908 B, 66, 67 (C. nepaholica).
 Woodward, A. S. 1901 A, 225, fig. 9.
 Upper Cretaceous (Niobrara); Kansas, France.

Cimolichthys semianiceps (Cope).

- Hay, O. P. 1902 A, 387 (Empo).
 1903 A, 84 (Empo).
 Woodward, A. S. 1901 A, 228.
 Upper Cretaceous (Niobrara); Kansas.

Cimolichthys sp. indet.

- Lambe, L. M. 1916 A, 196. Upper Cretaceous (Pierre?); Manitoba.

DERCETIDÆ Cope.

- Hay, O. P. 1902 A, 396.
 Abel, O. 1921 A, 188 (Hoplopleuridæ).
 Boulenger, G. A. 1904 A, 171.
 1904 D, 623.
 Cockerell, T. D. A. 1919 A, 184, 185.
 Dean, Gudger, Henn 1923 A, 643.
 Goodrich, E. S. 1909 A, 417.
 Hay, O. P. 1903 G, 691.
 Hennig, E. 1906 A, 173.
 Hoernes, R. 1886 A, 556 (Hoplopleuridæ).
 Jordan, D. S. 1905 A, ii, 136, 137.

- Jordan, D. S. 1907 B, 359, 377.
 1923 A, 128.
 Regan, C. T. 1909 B, 83.
 1911 B, 120.
 Schlosser, M. 1917 A, 140.
 Woodward, A. S. 1901 A, 6, 171.
 1912 A (1903), 65.
 Zittel and Koken 1911 A, 125.
 Zittel and Schlosser 1923 A, 135.
 Zittel and Woodward 1902 A, 97.

LEPTECODON Williston. Type *L. rectus* Willist.

- Hay, O. P. 1902 A, 397.
 Sauvage, H. E. 1901 B, 6 (Leptocodon).
 1901 F, 77 (Leptocodon).
 Schlosser, M. 1901 M, 479.
 Woodward, A. S. 1901 A, 233.

Leptecodon rectus Willist.

- Hay, O. P. 1902 A, 397.
 Sauvage, H. E. 1901 B, 6 (Leptocodon).
 1901 F, 77 (Leptocodon).
 Schlosser, M. 1901 M, 479.
 Woodward, A. S. 1901 A, 233.
 Cretaceous (Niobrara); Kansas.

TRIÆNASPIS Cope. Type *T. virgulatus* Cope.

- Hay, O. P. 1902 A, 397.
 Cockerell, T. D. A. 1919 A, 185.
 Hay, O. P. 1903 A, 89.
 1903 G, 694.
 Hennig, E. 1912 A, 490.
 Hussakof, L. 1916 C, 348.
 Jordan, D. S. 1919 B, 394.

- Woodward, A. S. 1901 A, 187 (Leptotrachelus).

Triænaspis virgulatus Cope.

- Hay, O. P. 1902 A, 397.
 Cockerell, T. D. A. 1919 A, 185.
 Hay, O. P. 1903 A, 89, pl. v, fig. 1.
 1903 G, 691.

Jordan, D. S. 1919 B, 394 (*Leptotrachelus virgatulus*).

Woodward, A. S. 1901 A, 187 (*Leptotrachelus*).
Upper Cretaceous (Niobrara); South Dakota.

LEPTOTRACHELUS Marek. Type *L. armatus* Marek.

Hay, O. P. 1902 A, 397.

Cope, E. D. 1880 U, 147.

Hay, O. P. 1903 A, 90.

1903 G, 694.

Hennig, E. 1912 A, 490.

Woodward, A. S. 1901 A, 173.

1912 A (1903), 68, pl. xvi, text-figs. 15, 16.

Zittel and Koken 1911 A, 125.

Zittel and Woodward 1902 A, 98.

Leptotrachelus longipinnis Cope.

Hay, O. P. 1902 A, 397.

1903 A, 90, pl. iv, fig. 3; pl. v, fig. 4.

Cockerell, T. D. A. 1919 A, 185.

Hussakof, L. 1908 A, 80.

Woodward, A. S. 1901 A, 187.

Cretaceous (Niobrara); South Dakota.

Leptotrachelus virgulatus (Cope).

Hay, O. P. 1902 A, 397 (*Trienaspis*).

Hussakof, L. 1908 A, 80.

Cretaceous (Niobrara); South Dakota.

HALOSAURIDÆ Günther.

Günther, A. C. 1868 A, 482.

Arlt, T. 1907 D, 657.

Boulenger, G. A. 1904 D, 623.

Carus, V. 1875 A, 579 (*Halisauroides*).

Dean, Gudger, Henn 1923 A, 643.

Gregory, W. K. 1907 D, 483.

Goodrich, E. S. 1909 A, 417.

Günther, A. C. 1880 A, 665.

1881 A, 694.

Jordan, D. S. 1905 A, ii, 138, 158.

1919 B, 283.

1923 A, 128 (*To Lyopomi*).

Jordan and Evermann 1896 A, 606.

Meek, A. 1916 A, 186.

Raither, M. 1913 A, 1102.

Regan, C. T. 1909 B, 82.

Woodward, A. S. 1901 A, 162.

Zittel and Schlosser 1923 A, 135.

ECHIDNOCEPHALUS Marek. Type *E. troscheli* Marek.

Marek, W. 1858, *Zeitschr. deutsch. geol. Ges.*, x, 247.

Cockerell, T. D. A. 1919 A, 184.

Woodward, A. S. 1898 C, 259.

1901 A, 163.

Echidnocephalus? americanus Cockerell.

Cockerell, T. D. A. 1919 A, 184, pl. xxxvi, fig. 10.

Upper Cretaceous (Mesa Verde); Wyoming.

Echidnocephalus? pacificus Cockerell.

Cockerell, T. D. A. 1919 A, 185, pl. xxxvi, fig. 11.

Upper Cretaceous (Chico); California.

Order HAPLOMI Cope.

Cope, E. D. 1871 T, 452.

Hay, O. P. 1902 A, 398.

Abel, O. 1919 A, 157.

Arlt, T. 1923 A, 516 ("*haplomen*").

Boulenger, G. A. 1902 C, 389.

1904 A, 162, 168, 174.

1904 D, 605.

Cope, E. D. 1891 N, 22.

Cunningham, J. T. 1912 A, 247.

Dean, Gudger, Henn 1923 A, 683.

Dietz, P. A. 1917 A, 84.

Fowler, H. W. 1911 A, 166.

Frost, G. A. 1926 A, 464, 479, pl. xx.

Gill, T. 1885 C, 168.

1905 A, 659.

Goodrich, E. S. 1909 A, 397 (*Esociformes*).

Gregory, W. K. 1907 D, 451, 487.

Hubbs, C. L. 1919 B, 61, 66.

Jaekel, O. 1911 A, 92.

Jordan, D. S. 1885 A, 168.

1904 A, 598.

1905 A, ii, 189, 574.

1907 B, 408, 424, 764.

1923 A, 156.

Jordan and Gilbert 1882 A, 323.

Meek, A. 1916 A, 179.

Raither, M. 1913 A, 1101.

Regan, C. T. 1909 B, 77, 83.

1911 D, 320 (*Haplomi*, *Microcyprini*).

1912 B, 841, 843.

Schlesinger, G. 1909 A, (147, 152).

Starks, E. C. 1901 A, 260.

1904 C, 254.

1916 A, 23.

Swinerton, H. W. 1905 A, 378.

Whitehouse, R. H. 1910 B, 604.

Suborder CYPRINODONTIFORMES, new form.

Frost, G. A. 1926 A, 475, pl. xxi (*Myloxyprini*, *Pœcilioidea*).

Gill, T. 1872 C, 15 (*Cyprinodontoides*).

Jordan, D. S. 1923 A, 157 (*Cyprinodontes*).

Regan, C. T. 1909 B, 82 (*Microxyprini*).

1911 D, 322 (*Pœcilioidea*).

Sagemehl, M. 1891 A ("*cyprinodonten*").

Starks, E. C. 1904 C, 258 (*Pœcilioidea*).

CYPRINODONTIDÆ Owen.

- Owen, R. 1846, 48.
 Hay, O. P. 1902 A, 398 (Pœciliidæ).
 Adams, A. 1854 A, 107 (Pœciliidæ).
 Agassiz, L. 1838 A, 82 ("cyprinodonten").
 1844 D, 142 ("cyprinodontes").
 Allis, E. P. 1898 B, 95 (Cyprinodontides).
 Arldt, T. 1907 D, 649.
 1912 A, 690, 762.
 1923 A, 518 ("cyprinodontiden").
 Bonaparte, C. L. 1840 A, 53 (Pœcilidæ).
 Boulenger, G. A. 1904 A, 169.
 1904 D, 616, 637.
 1917 B, 330.
 1919 A, 44.
 Bronn, H. G. 1849 A, 780, seq. (Cyprinodontes).
 Carus, V. 1875 A, 572 (Cyprinodontes).
 Cockerell, T. D. A. 1913 B, 141 (Pœciliidæ).
 1915 A, 31 (Pœciliidæ).
 Cope, E. D. 1871 T, 455.
 Cunningham, J. T. 1912 A, 247.
 Dean, Gudger, Henn 1923 A, 676.
 Eastman, C. R. 1917 A, 290.
 Fitzinger, L. J. 1873 A, 38 (Cyprinodontes).
 Frost, G. A. 1926 A, 475.
 Gaupp, E. 1898 B, 823 ("cyprinodontiden").
 Giebel, C. G. 1855 A, 108 ("cyprinodontes").
 Gill, T. 1885 C, 170.
 Goodrich, E. S. 1909 A, 400.
 Günther, A. C. 1866 A, 299.
 Heckel, J. 1850 B, 146 ("poecilien").
 Hoernes, R. 1886 A, 530 (Cyprinodontes).
 Hubbs, C. L. 1919 B, 66 (Pœciliidæ).
 Ihering, H. 1891 C, 25 ("cyprinodonten").
 Jordan, D. S. 1885 A, 902.
 Jordan, D. S. 1905 A, ii, 194, 586 (Pœciliidæ).
 1907 B, 413 (Pœciliidæ).
 1923 A, 157, 158.
 Jordan and Gilbert 1882 A, 326.
 Kindred, J. E. 1924 A, 423 ("cyprinodonts").
 Leunis and Ludwig 1883 A, 741.
 Lönnberg, E. 1902 A (Cyprinodontes).
 Meek, A. 1916 A, 183.
 Müller, J. 1845 A, 102, 136 (Cyprinodontes).
 Norman, E. W. 1926 A, 441.
 Nusbaum, J. 1908 A, 514 ("cyprinodonten").
 Owen, R. 1845 B, 144 ("cyprinodonts").
 Palacký, J. 1902 B, 150 ("cyprinodonten").
 Rauther, M. 1913 A, 1101.
 Regan, C. T. 1909 B, 84.
 1911 D, 323.
 1912 B, 841.
 1913 C, 977 ("cyprinodonts").
 1923 B, 457 ("cyprinodonts").
 Sagemehl, M. 1883 A ("cyprinodonten").
 1884 A, 100 ("cyprinodontiden").
 Shepherd, C. E. 1914 A, 270.
 Stannius, H. 1854 A (Cyprinodontes).
 Starks, E. C. 1904 C, 259 (Pœciliidæ).
 Stephan, P. 1900 A, 321 ("cyprinodontes").
 Struck, W. 1915 A, 137, fig. 3 (Cyprinodon).
 Uhlmann, E. 1921 A, 301.
 Wagner, H. 1843 A ("cyprinodonten").
 Wallace, A. R. 1876 A, ii, 450.
 Woodward, A. S. 1901 A, ix, 7, 289.
 Zittel and Koken 1911 A, 122.
 Zittel and Schlosser 1923 A, 132.
 Zittel and Woodward 1902 A, 100.

PARAFUNDULUS Eastman. Type *P. nevadensis* Eastman.

- Eastman, C. R. 1917 A, 291.
 Jordan, D. S. 1925 B, 43.

Parafundulus erdisi Jordan.

- Jordan, D. S. 1924 B, 45, pls. I, J.
 1925 B, 43.
 Miocene (Lahontan); California.

Parafundulus nevadensis Eastman.

- Eastman, C. R. 1917 A, 291, pl. xvi, fig. 2; pl. xvii; pl. xviii, fig. 3.
 Jordan, D. S. 1924 B, 47.
 Miocene (Lahontan); Nevada.

PROBALLOSTOMUS Cope. Type *P. longulus* Cope.

- Hay, O. P. 1902 A, 394.
 The systematic position of this genus is doubtful.

Proballostomus longulus Cope.

- Hay, O. P. 1902 A, 394.
 Woodward, A. S. 1901 A, 296.
 Oligocene?; South Dakota.

GEPHYRURA Cope. Type *G. concentrica* Cope.

- Hay, O. P. 1902 A, 398 (Gephyura, *errore*).
 Arldt, T. 1907 D, 97 ("cyprinodontengattung").
 Eastman, C. R. 1917 A, 290.
 The systematic position of this genus is doubtful.

Gephyrura concentrica Cope.

- Hay, O. P. 1902 A, 398 (Gephyura, *errore*).
 Eastman, C. R. 1917 A, 290.
 Woodward, A. S. 1901 A, 296.
 Oligocene?; South Dakota.

Order SYNENTOGNATHI Gill.

- Gill, T. 1856, Proc. Acad. Nat. Sci. Phila., 1856, 148.
 Cope, E. D. 1871 T, 456, 457.
 1872 C, 338.
 Frost, G. A. 1926 A, 471, 480, pl. xx.
 Gill, T. 1872 C, 14.
 1885 C, 173.
 Gregory, W. K. 1907 D, 491.
 Hubbs, C. L. 1919 B, 61.
 Jordan, D. S. 1905 A, ii, 209.
 1907 B, 425.
 1921 A, 253.
 1923 A, 160.
 Jordan and Evermann 1896 A, 707.

Jordan and Gilbert 1882 A, 371.
Regan, C. T. 1909 B, 78.
1911 E, 327, 331.

Regan, C. T. 1912 B, 842, 844.
Starks, E. C. 1904 B, 601 ("synentognaths").

FORFICIDÆ Jordan and Gilbert.

Jordan and Gilbert 1919 A, 36.

Jordan, D. S. 1921 A, 254.
1923 A, 160.

FORFEX Jordan. Type *F. hypuralis* Jordan.

Jordan, D. S. in *Jordan and Gilbert* 1919 A, 36.
Jordan, D. S. 1920 C, 568.
1921 A, 254.
1923 A, 160.
1925 B, 16.

Forfex hypuralis Jordan and Gilbert.

Jordan, D. S., in *Jordan and Gilbert* 1919 A,
36, pl. xiv, fig. 3.
1921 A, 254, pl. xxi, fig. b.
Miocene (Monterey); California.

BELTION Jordan. Type *B. peronides* Jordan.

Jordan, D. S. 1920 C, 571.
1921 A, 257.
1923 A, 161.
1925 B, 16.

Beltion peronides Jordan.

Jordan, D. S. 1920 C, 571.
1921 A, 257.
1925 B, 16, pl. v.
Miocene (Monterey); California.

ZELOTICHTHYS Jordan. Type *Zelotes alhambræ* Jordan.

Jordan, D. S. 1925 B, 44.
1921 A, 255 (Zelotes; preoccupied).

Zelotichthys alhambræ (Jordan).

Jordan, D. S. 1921 A, 254, pl. xii, fig. a, pl.
xxvi, fig. b. (Zelotes).

Jordan, D. S. 1925 B, 44.
Miocene (Monterey); California.
In *Jordan, D. S.* 1921 A, plate xxvii was
intended for this species; plate xxviii for
Zelosis hadleyi.

ROGENIIDÆ Jordan.

Jordan, D. S. 1919 A, 8, 24.
1921 A, 253.

Jordan, D. S. 1923 A, 160.

ROGENIO Jordan. Type *R. solitudinis* Jordan.

Jordan, D. S. 1907 A, 128.
Hubbs, C. L. 1924 A, 177, 178.
Jordan, D. S. 1921 A, 253.

Rogenio solitudinis Jordan.

Jordan, D. S. 1907 A, 128, fig. 23.
1919 A, 5, 8, pl. ii, fig. 1.
1921 A, 253, pl. xvii, fig. b.

Jordan and Gilbert 1919 A, 24.
Miocene? (Soledad); California.

Rogenio vancleveii Jordan and Gilbert.

Jordan and Gilbert 1919 A, 24, pl. xxxi, fig. 3.
Jordan, D. S. 1921 A, 253, pl. xxv, fig. a.
Miocene (Monterey); California.

XENESTHIDÆ Jordan.

Jordan, D. S. 1923 A, 160.

XENESTHES Jordan. Type *X. velox* Jordan.

Jordan, D. S. 1907 A, 120.
Arlt, T. 1923 A, 500.

Xenesthes velox Jordan.

Jordan, D. S. 1907 A, 120, fig. 16.
Hubbs, C. L. 1924 A, 177.
Triassic; California.

Superfamily SCOMBERESOCOIDÆ, new form.

Frost, G. A. 1926 A, 471, pl. xx (Scomberesocoida).
Klein, E. F. 1884 A, 130, 135, 145, 190, 199, 229
(Scomberesoces).

Klein, E. F. 1885 A (Scomberesoces).
Regan, C. T. 1911 E, 331 (Scomberesocoida, as
suborder).

SCOMBERESOCIDÆ Richardson.

Richardson, J. 1846 A, 264.
The greater number of the authors quoted
spell this name Scomberesocidæ.
Abel, O. 1906 C, 84.
Arlt, T. 1907 D, 681.
1923 A, 673 ("scomberesociden").

Bassoli, G. G. 1906 A, 37 (otoliths).
Boulenger, G. A. 1904 A, 175.
1904 D, 636, 637.
1917 B, 329.
1919 A, 44.
Carus, V. 1875 A, 551 (Scomberesoces).

- Cockerell, T. D. A. 1913 B, 145.
 Cope, E. D. 1872 C, 338.
 Dean, Gudger, Henn 1923 A, 362, 582, 645.
 Dietz, P. A. 1917 A, 86.
 Dollo, L. 1889 E, 155.
 Eastmann, C. R. 1911 C, 360.
 Fitzinger, L. J. 1873 A, 36 (Scomberesoces).
 Fryd, C. 1901 A, 25.
 Gaupp, E. 1898 B, 823 ("scomberesoces").
 Gill, T. 1885 C, 174 ("scomberesocines").
 Goodrich, E. S. 1909 A, 402.
 Gregory, W. K. 1907 D, 493.
 Günther, A. C. 1866 A, 233.
 1880 A, 620.
 1881 A, 693.
 Hoernes, R. 1886 A, 531 (Scomberesoces).
 Hubbs, C. L. 1919 B, 66.
 Ihering, H. 1891 C, 25 ("scomberesociden").
 Jordan, D. S. 1904 A, 598.
 1905 A, ii, 211 (Exocetidae, in part).
 1907 B, 427 (Exocetidae, in part).
 1923 A, 161.
 Jordan and Evermann 1896 A, 724.
 Jordan and Gilbert 1882 A, 371.
- Klein, E. F. 1879 A, 66.
 1884 A.
 1885 A, 114, 154, 164, 179, 214, 246 (Scomberesoces).
 1886 A, 207, 233, 262, 293 (Scomberesoces).
 Leunis and Ludwig 1883 A, 742.
 Meek, A. 1916 A, 199.
 Müller, J. 1846 C, 170, 174 (Scomberesoces).
 Norman, E. W. 1926 A, 441.
 Nusbaum, J. 1908 A, 514 ("scomberesoces").
 Owen, R. 1845 B, 131 (Scomberesox).
 1866 A, 10.
 Rauther, M. 1913 A, 1102.
 Regan, C. T. 1911 E, 333.
 Sagemehl, M. 1884 A, 100 ("scomberesociden").
 Schlesinger, G. 1909 B.
 Siebenrock, F. 1901 A, 108.
 Stannius, H. 1854 A, 5, seq. (Scomberesoces).
 Terra, P. 1911 A, 214.
 Uhlmann, E. 1921 A, 301 (Scomberesoces).
 Wallace, A. R. 1876 A, ii, 449.
 Woodward, A. S. 1901 A, 356.
 Zittel and Koken 1911 A, 122.
 Zittel and Schlosser 1923 A, 133.
 Zittel and Woodward 1902 A, 103.

SCOMBERESSUS Jordan. Type *Scomberesox acutillus* Jordan and Gilbert.

- Jordan, D. S. 1920 C, 571.
 1921 A, 257.
- Scomberessus acutillus** (Jordan and Gilbert).
- Jordan and Gilbert 1919 A, 37, pl. xiv, fig. 2. (Scomberesox).
 Jordan, D. S. 1920 C, 571.
- Jordan, D. S. 1921 A, 257, pl. xxvii, fig. a.
 Miocene (Monterey); California.
- Scomberessus edwardsi** (Jordan and Gilbert).
- Jordan and Gilbert 1919 A, 37, pl. xviii (Scomberesox).
 Jordan, D. S. 1921 A, 257.
 Miocene (Monterey); California.

HEMILAMPRONITES Steinla. Type *H. steinlai* Geinitz.

- Steinla, M. 1868, in Geinitz, H. B. 1868 A, 48, pl. iii, figs. 3, 4.
 Cockerell, T. D. A. 1919 A, 185.
 Jordan, D. S. 1919 B, 350.
- Hemilampronites hesperius** Cockerell.
- Cockerell, T. D. A. 1919 A, 185, pl. xxxvi, fig. 13.
 Upper Cretaceous (Fox Hills); Colorado.

BELONIDÆ Gill.

- Gill, T. 1872 C, 14.
 Allis, E. P. 1909 A, 213 (Belone).
 Bonaparte, C. L. 1840 A, 301 (Belonini).
 Frost, G. A. 1926 A, 471, pl. xx.
 Gill, T. 1885 C, 176.
 Goodrich, E. S. 1909 A, 403 (Beloninae).
 Gregory, W. K. 1907 D, 492.
 Hubbs, C. L. 1919 B, 66.
 Jordan, D. S. 1905 A, ii, 210.
 1907 B, 426.
- Jordan, D. S. 1921 A, 257.
 1923 A, 239.
 1925 B, 16.
- Klein, E. F. 1884 A, 145, 229, 246 (Belone).
 1885 A, 114, 154, 177 (Belone).
 Regan, C. T. 1911 E, 329, 331.
 The genus *Beltion* was at one time referred to this family but was later assigned to the Forficidae.

Superfamily EXOCÆTOIDÆ, new form.

- Frost, G. A. 1926 A, 472, pl. xx (Exocætoidea).
 Regan, C. T. 1911 E, 331 (Exocætoidea, as suborder).

HEMIRHAMPHIDÆ Jordan and Evermann.

- Jordan and Evermann 1896 A, 718 (earliest?).
 Arltdt, T. 1923 A, 673 (Hemirhamphus).
 Bassoli, G. G. 1906 A, 37, pl. i (Hemirhamphus, otoliths).
 Cockerell, T. D. A. 1913 B, 145.
- Dean, Gudger, Henn 1923 A, 683 (Hemirhamphus).
 Frost, G. A. 1926 A, 472 (Hemirhamphus).
 Gill, T. 1885 C, 174 (Hemirhamphinae).
 Gregory, W. K. 1907 D, 492 ("half-beaks").

- Hubbs, C. L. 1919 B, 66.
 Jordan, D. S. 1905 A, ii, 227.
 1923 A, 161.
 Jordan and Gilbert 1882 A, 372 (Hemirhamphinae).
 Klein, E. F. 1884 A, 130 (Hemirhamphus).
 1885 A, 115, 155 (Hemirhamphus).
 1886 A, 223 (Hemirhamphus).
 Regan, C. T. 1911 E, 324.
 Stannius, H. 1854 A (Hemirhamphus).

ZELOSIS Jordan and Gilbert. Type *Clupea hadleyi* Jordan and Gilbert.

- Jordan and Gilbert* 1920 A, 24.
Jordan, D. S. 1921 A, 256.
 The position of this genus is uncertain.
Jordan and Gilbert 1919 A, 25, 29, pl. xiii (Clupea).
Jordan, D. S. 1921 A, 256, pl. xxvi, fig. a.
 1925 B, 44.
Jordan and Gilbert 1920 A, 24, pl. xxix.
 Miocene (Monterey); California.
 In *Jordan, D. S.* 1921 A, fig. a of pl. xxvi was intended for this species; fig. b for *Zelotes alhambræ*.

ROGENITES Jordan. Type *Rogenio bowersi* Jordan.

- Jordan, D. S.* 1919 A, 8.
Rogenites bowersi Jordan.
Jordan, D. S. 1907 A, 130, fig. 24 (Rogenio).
Jordan, D. S. 1919 A, 5, 8, pl. ii, fig. 2.
 1921 A, 255, pl. xx, fig. a.
 Miocene? (Soledad); California.

RHOMURUS Jordan. Type *R. fulcratus* Jordan.

- Jordan, D. S.* 1919 A, 9.
 The family relationships of this genus are uncertain.
Rhomurus fulcratus Jordan.
Jordan, D. S. 1919 A, 5, 9, pl. iv, figs. 3, 4: pl. v, fig. 1.
 1921 A, 248.
 1925 B, 44.
 Miocene? (Soledad); California.

Order GADOMORPHI, new name.

- Unless otherwise indicated the authors, as quoted, use for this order the name Anacanthini. Originally it included the flat fishes, etc.
 Abel, O. 1919 A, 157.
 Allis, E. P. 1909 A, 11, 197.
 Arldt, T. 1907 D, 637.
 1923 A, 673, 675 ("anacanthinen").
 Boulenger, G. A. 1901 A, 265.
 1902 B, 297.
 1904 A, 176.
 1904 D, 646.
 Bridge, T. W. 1896 A, 553.
 Carus, V. 1875 A, 551.
 Cockerell, T. D. A. 1913 B.
 Cope, E. D. 1872 C, 341.
 Dietz, P. A. 1921 A, 456 (Gadiformes).
 Gill, T. 1884 F, 167.
 1885 C, 267.
 Frost, G. A. 1926 A, 483, pl. xxii.
 Goode and Bean 1895 A, 352.
 Goodrich, E. S. 1909 A, 478 (Gadiformes).
 Gregory, W. K. 1907 D, 498.
 Günther, A. C. 1881 A, 688, 691.
 Jordan, D. S. 1905 A, i, 405; ii, 532, 556.
 1907 B, 739.
 Klein, E. F. 1879 A, 103.
 1884 A, 135, 145 (Anacanthini).
 1885 A, 119, 141, 208, 238.
 1886 A, 220, 256, 287 (Anacanthini).
 Müller, J. 1846 C, 130, 177, 202.
 Owen, R. 1866 A, 10.
 Rauther, M. 1913 A, 1103.
 Regan, C. T. 1903 B, 459, 464.
 1909 B, 80.
 1912 B, 839, 842, 848.
 Stannius, H. 1854 A, 5, seq. (Anacanthini).
 1891 A ("gadiden").
 Steinmann, G. 1927 A, 77 (Gadiformes).
 Stephan, P. 1900 A, 321 ("anacanthines").
 Terra, P. 1911 A, 213 (Anacanthini).

Superfamily GADOIDÆ Gill.

- Gill, T.* 1863 B, 243 (As family name).
Dietz, P. A. 1917 A, 84 (Gadiformes).
 1921 A, 433.
Gill, T. 1884 F, 170 (Gadoidea).
 Günther, A. C. 1881 A, 691 (Gadoidei).
 Klein, E. F. 1879 A, 67, 70, 75 (Gadoidei).
 Owen, R. 1845 B, 161 ("gadoids").
 Zittel and Schlosser 1923 A, 149 (Gadiformes).

GADIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 95, 117.
 Abel, O. 1919 A, 47, 108, figs. 21, 24, 67.
 Allis, E. P. 1903 B, 172 (Gadus).
 1909 A, 213 (Gadus).
 1915 A, 566 (Gadus).
 Arldt, T. 1907 D, 655.
 1921 A, 215 ("gadiden").
 Arldt, T. 1922 F, 83.
 1923 A, 676 ("gadiden").
 Bassoli, G. G. 1906 A, 38, pl. i (otoliths).
 Baudelot, E. 1873 A, 101, 205 ("gadoides").
 Bonaparte, C. L. 1838 B, 132.
 Boulenger, G. A. 1901 A, 265.
 1902 B, 296.

- Boulenger, G. A. 1904 D, 647, 740.
 Bridge, T. W. 1896 A, 558.
 Carus, V. 1875 A, 552 (Gadoidei).
 Cockerell, T. D. A. 1913 B, 173.
 Cope, E. D. 1872 C, 341.
 Creaser, C. W. 1926 A, 32.
 Cunningham, J. S. 1905 A.
 Dean, Gudger, Henn 1923 A, 681.
 Dietz, P. A. 1914 A, 139.
 1921 A, 433.
 Frost, G. A. 1926 A, 483, 489.
 Gill, T. 1863 B, 243 (Gadoideæ).
 1863 C, 229.
 1872 C, 3.
 1884 F, 170.
 1885 C, 267.
 Goode and Bean 1895 A, 352.
 Gregory, W. K. 1907 D, 498.
 Goodrich, E. S. 1909 A, 482.
 Günther, A. C. 1862 A, 326.
 1881 A, 691.
 Hasse, C. 1872 A (Gadus).
 Jordan, D. S. 1905 A, i, 290; ii, 522, 533.
 1907 B, 740.
 1921 A, 260.
 1923 A, 163.
 Jordan and Evermann 1898 A, 2531.
 Jordan and Gilbert 1882 A, 794.
 Klein, E. F. 1879 A, 70, 75, 115.
 1884 A, 137, 145, 176, 224, 248.
 1885 A, 119, 141, 174, 238.
 1886 A, 207, 220, 256, 287 ("gadiden").
 Koken, E. 1889 B, 117, 120.
 Meek, A. 1916 A, 209.
 Mummery, J. H. 1917 A, 256.
 Newton, E. T. 1891 A, 93 (Gadus).
 Norman, E. W. 1926 A, 407, 411, fig. 44.
 Owen, R. 1845 B, 161 ("cod-tribe").
 1848 B, 10, 90, figs. 1-5.
 1866 A, 10, 93, figs. 75, 77-81 (Gadus).
 Priem, F. 1914 B, 249, figs. 10-12 ("gadidarum";
 "otolithus").
 Rauther, M. 1913 A, 1102.
 Regan, C. T. 1903 B, 460, 465.
 Reynolds, S. H. 1897 A, 83, figs. 12, 13 (Gadus).
 Röse, C. 1897 A, 29, 60, figs. 2-4, 17 (Merlucius,
 Gadus).
 Sagemehl, M. 1883 A, 192 ("gadiden").
 1884 A, 74 ("gadiden").
 1891 A ("gadoiden").
 Schlosser, M. 1917 A, 142, 143 ("gadiden").
 Shepherd, C. E. 1910 B, 295 (Gadus).
 1916 A, 178, 203.
 Siebenrock, F. 1901 A.
 Stadtmüller, F. 1926 A, 162 (Gadus).
 Stannius, H. 1842 C, 97 (Gadus).
 1849 A, 539 (Gadus).
 1854 A, 5, seq. (Gadoidei).
 Starks, E. C. 1905 A, 755 (Gadus).
 Stensiö, E. A. 1921 A, 155.
 Stephan, P. 1900 A, 301, 340, 364, pl. vi, fig. 1
 (Gadus, Lota).
 Terra, P. 1911 A, 213.
 Thomson, J. S. 1904 A, 1-109, pls. i-viii.
 Trouessart, E. L. 1906 A, 212.
 Uhlmann, E. 1921 A, 303 ("gadiden").
 Weiler, W. 1922 A, 73 (otoliths).
 Whitehouse, R. H. 1918 A, 140.
 Woodward, A. S. 1901 A, 597.
 Zittel and Koken 1911 A, 127.
 Zittel and Schlosser 1923 A, 150.

ARNOLDITES Jordan. Type *Arnoldina iniistia* Jordan and Gilbert.

- Jordan, D. S. 1923 A, 164.
 Hubbs, C. L. 1924 A, 178.
 Jordan and Gilbert 1919 A, 63 (Arnoldina, pre-
 occupied).
Arnoldites iniistia (Jordan and Gil-
 bert).
Jordan and Gilbert 1919 A, 63, pl. xxvii, fig. 2
 (Arnoldina).
 Jordan, D. S. 1921 A, 262 (Arnoldina).
 Pliocene; California.

ECLIPES Jordan and Gilbert. Type *E. veternus* Jord. and Gilbert.

- Jordan and Gilbert* 1919 A, 47 (Eclipses); 56
 (Merriamina, type *M. ectenes*).
 Jordan, D. S. 1921 A, 260.
Eclipses extensus Jordan.
Jordan, D. S. 1921 A, 261, pl. ix, fig. c.
 Miocene (Monterey); California.
Eclipses manni Jordan.
Jordan, D. S. 1921 A, 260, pl. xii, fig. b; pl.
 xxxi, fig. a.
 Jordan, D. S. 1925 B, 17.
 Miocene (Monterey); California.
Eclipses veternus Jordan and Gilbert.
Jordan and Gilbert 1919 A, 47, pl. viii, fig. 4
 (*E. veternus*); 56, pl. xxvi, figs. 1-3 (*Merriamina ectenes*).
 Jordan, D. S. 1921 A, 260, pl. xxxi, fig. b.
 Jordan and Gilbert 1920 A, 41.
 Miocene (Monterey); California.

MACROURIDÆ Jordan and Evermann.

- Jordan and Evermann* 1898 A, 2561.
 Boulenger, G. A. 1904 D, 647, 702 (Macruridæ).
 Cockerell, T. D. A. 1913 B, 173, pl. xi, fig. 48
 (Macruridæ).
 Dean, Gudger, Henn 1923 A, 688 (Macruridæ).
 Frost, G. A. 1926 A, 483, pl. xxii (Macrurus).
 Gill, T. 1885 C, 275 (Macruridæ).
 Günther, A. C. 1862 A, 390 (Macruridæ).
 Jordan, D. S. 1923 A, 162.
 Jordan and Gilbert 1882 A, 810 (Macruridæ).
 Shepherd, C. E. 1916 A, 203 (Macrurus).

BOLBOCARA Jordan. Type *B. gyrinus* Jordan.

Jordan, D. S. 1927 B, 94.

Bolbocara gyrinus Jordan.

Jordan, D. S. 1927 B, 94.

Upper Miocene (Lompoc); California.

Order MUGILOMORPHI, new name.

Suborder MUGILIFORMES Günther.

Günther, A. C. 1880 A, 499.

Unless otherwise indicated the authors, as cited, use for this suborder the term *Percesoces*.

Hay, O. P. 1902 A, 398.

Abel, O. 1919 A, 157.

Arlt, T. 1923 A, 500, 673.

Boulenger, G. A. 1901 D, 348.

1904 A, 162, 174.

1904 D, 636.

1919 A, 44 ("percesoces").

Cockerell, T. D. A. 1910 E, 48.

1913 B, 136.

Cope, E. D. 1871 T, 456.

1891 N, 25.

Cunningham, J. T. 1912 A, 247.

Dean, Gudger, Henn 1923 A, 694.

Derjugin, K. 1909 A.

1910 A, 620.

Dietz, P. A. 1917 A, 86.

Dollo, L. 1909 B (138).

Fowler, H. W. 1911 A, 169.

Gill, T. 1873 F, 10 (> *Mugiloidea*).

1885 C, 176.

Goodrich, E. S. 1909 A, 419 (*Mugiliformes*).

Gregory, W. K. 1907 D, 452, 497.

Günther, A. C. 1881 A, 690 (*Mugiliformes*).

Hubbs, C. L. 1919 B, 66.

Jaekel, O. 1911 A, 94.

Jordan, D. S. 1904 A, 598.

1905 A, ii, 215, 585.

1907 B, 424, 432, 765.

1923 A, 177.

Jordan and Hubbs 1919 A, 6.

Meek, A. 1916 A, 199.

Regan, C. T. 1903 B, 460.

1909 B, 79 (*Percesoces*, *Mugiloidei*).

1912 B, 842, 846.

1913 B, 111 (*Mugiloidea*).

Schlesinger, G. 1909 A (147, 151).

Stannius, H. 1854 A (*Mugiloidei*).

Starks, E. C. 1916 A, 26.

Whitehouse, R. H. 1910 B, 606.

Woodward, A. S. 1898 B, 120.

1901 A, 347.

Zittel and Schlosser 1923 A, 135 (*Mugiliformes*).

ATHERINIDÆ Bonaparte.

Bonaparte, C. L. 1838 B, 132.

Arlt, T. 1907 D, 640.

1923 A, 673 ("atheriniden").

Baudelot, E. 1873 A, 101 ("athérines").

Boulenger, G. A. 1904 D, 637, 639.

1917 B, 329.

1919 A, 44.

Cockerell, T. D. A. 1910 E, 47.

1913 B, 146.

Cope, E. D. 1871 T, 457.

1872 C, 328, 338.

Dean, Gudger, Henn 1923 A, 645.

Gill, T. 1885 C, 178.

Goodrich, E. S. 1909 A, 419.

Günther, A. C. 1861 A, 391.

1880 A, 500.

1881 A, 690.

Hubbs, C. L. 1926 A, 64.

Hubbs, C. L. 1905 A, i, 290; ii, 215.

Jordan, D. S. 1907 A, 131.

1921 A, 268.

1923 A, 177.

Jordan and Evermann 1896 A, 788.

Jordan and Gilbert 1882 A, 404.

Jordan and Hubbs 1919 A, 5, 7.

Klein, E. F. 1879 A, 99.

1884 A, 135, 221.

1885 A, 109, 112, 140.

1886 A, 213, 249, 283 (*Atherina*).

Meek, A. 1916 A, 203.

Owen, R. 1845 B, 120.

Pouchet, G. 1878 A, 54, figs. (*Atherina*).

Regan, C. T. 1912 B, 847.

Shepherd, C. E. 1916 A, 204.

Siebenrock, F. 1901 A.

Woodward, A. S. 1901 A, 358.

ZANTECLITES Jordan and Gilbert. Type *Z. hubbsi* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 39.

Hubbs, C. L. 1924 A, 178.

Jordan, D. S. 1921 A, 268.

Jordan and Hubbs 1919 A.

Zanteclites hubbsi Jordan and Gilbert.Jordan and Gilbert 1919 A, 39, pl. xv, fig. 3;
pl. xvi.

Jordan, D. S. 1921 A, 268, pl. xxix.

1925 B, 44.

Miocene (Monterey); California.

SPHYRÆNIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 90, 102.

Hay, O. P. 1902 A, 399.

Agassiz, L. 1844 D, 142 ("sphyrenoides").

1845 B, 300 ("sphyrenoides").

Arlt, T. 1907 D, 151, 280.

1923 A, 674 ("sphyreniden").

Bonaparte, C. L. 1833 B, 1197.

1838 B, 133.

Boulenger, G. A. 1904 A, 175.

1904 D, 642.

1917 B, 329.

1919 A, 44.

Bridge, T. W. 1896 A, 569.

Carus, V. 1875 A, 543 (Sphyrænoidei).

Cockerell, T. D. A. 1913 B, 146.

Cunningham, J. T. 1912 A, 246, 247.

Cuvier, G. 1815 A, 110 ("sphyrènes").

Dean, Gudger, Henn 1923 A, 589, 645.

Dietz, P. A. 1917 A, 86.

Fitzinger, L. J. 1873 A, 35 (Sphyrænæ).

Fowler, H. W. 1911 A, 169.

Giebel, C. G. 1855 A, 104 (Spharænoidei).

Goodrich, E. S. 1909 A, 419.

Gudger, E. W. 1918 A, 100.

Hoernes, R. 1886 A, 537.

Jordan, D. S. 1905 A, ii, 222, 593.

Jordan, D. S. 1907 B, 437.

1923 A, 178.

Jordan and Gilbert 1882 A, 410.

Jordan and Hubbs 1919 A, 6.

Klein, E. F. 1879 A, 91.

1884 A, 135.

1885 A, 109, 199.

Leunis and Ludwig 1883 A, 696.

Meekel, J. F. 1825 A (Sphyræna).

Meek, A. 1916 A, 207.

Owen, R. 1866 A.

Regan, C. T. 1912 B, 846.

Schlosser, M. 1917 A, 142 ("sphyraeniden").

Schubert, R. J. 1906 A, 650.

Terra, P. 1911 A, 217.

Wallace, A. R. 1876 A, ii, 429.

Woodward, A. S. 1901 A, 365.

Zittel and Schlosser 1923 A, 136.

SPHYRÆNA Röse. Type *Esox sphyræna* Linn.

Röse, A. F. 1793, *Synonymia Nom. Pisc.*, ed. ii, 112.

Hay, O. P. 1902 A, 400.

Abel, O. 1912 F, 513.

Allis, E. P. 1909 A, 214.

Arlt, T. 1923 A, 674.

Boulenger, G. A. 1904 D, 642.

1919 A, 44.

Bridge, T. W. 1896 A, 569, pl. xxiii.

Bronn, H. G. 1848 B, 1171.

1849 A, 675.

Cockerell, T. D. A. 1913 B, 146.

Dean, Gudger, Henn 1923 A, 395, 574, 645.

Gervais, P. 1859 A, 514, pl. lxviii.

Giebel, C. G. 1855 A, 104, pl. xliii, fig. 9.

Gudger, E. W. 1918 A, 55, 101, pls. i-vii.

Jordan, D. S. 1905 A, ii, 223, 593.

1907 B, 438.

1917 A, 43, 52, 58.

Jordan and Evermann 1917 A, 43, 52, 58.

Jordan and Gilbert 1882 A, 410.

Klein, E. F. 1879 A, 91.

1884 A, 139, 181, 184, 199, 212, pl. ii.

1885 A, 111, 135, 168, 228.

Klein, E. F. 1886 A, 210, 242, 279, figs. 19, 39.

Leunis and Ludwig 1883 A, 696.

Owen, R. 1845 B, 126, pl. liii.

1848 B, 46.

1866 A.

1868 A, 909.

Priem, F. 1914 B, 255, fig. 22 ("otolithus").

Ridewood, W. G. 1896 A, 384, 386.

1904 A, 59.

Schlesinger, G. 1909 A (144).

Starks, E. C. 1899 B, 114.

Stephan, P. 1898 A, 359.

1900 A, 314, 409.

Woodward, A. S. 1901 A, 366.

Sphyræna major Leidy.

Hay, O. P. 1902 A, 400.

Woodward, A. S. 1901 A, 368.

Pleistocene; South Carolina.

Sphyræna sp. indet.

Gidley, J. W. 1926 F, 192, pl. lxxi (Saurodon.

Genus doubtful). Upper Cretaceous (Ripley):

Tennessee.

Order SELENICHTHYES Boulenger.

Boulenger, G. A. 1904 A, 173.

Boulenger, G. A. 1904 D, 627.

Goodrich, E. S. 1909 A, 475.

Frost, G. A. 1927 A, 439 (Allotriognathi).

Jordan, D. S. 1905 A, ii, 243.

1907 B, 458.

1921 A, 265.

1923 A, 166.

Regan, C. T. 1909 B, 80 (Lamproidei).

Suborder LAMPRIDIFORMES Goodrich.

Goodrich, E. S. 1909 A, 475.

LAMPRIDIDÆ Gill.

Gill, T. 1872 C, 9.

Boulenger, G. A. 1904 D, 627, 628.

Dean, Gudger, Henn 1923 A, 590, 644.

Frost, G. A. 1927 A, 439 (Lampridæ).

Jordan, D. S. 1905 A, ii, 10, 243.

Jordan, D. S. 1907 B, 459.

1921 A, 265 (Lampridæ).

1923 A, 166 (Lampridæ).

Jordan and Evermann 1896 A, 953.

Jordan and Gilbert 1882 A, 453.

DIATOMÆCA Jordan and Gilbert. Type *D. zatima* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 58.

Jordan, D. S. 1920 C, 569.

Jordan, D. S. 1921 A, 264.

Jordan and Gilbert 1920 A, 50.

- Diatomæca zatima** Jordan and Gilbert. | Jordan, D. S. 1921 A, 265, pl. 4, fig. b; pl. xxxii.
 1927 B, 90.
 Jordan and Gilbert 1920 A, 40, pl. xix.
 Jordan, D. S. 1920 B, 472, fig. 3 (Lampris). | Miocene (Monterey); California.

LAMPRI Retzius. Type *Zeus guttatus* Brünnich.

- Retzius, A. J. 1799, Nya Handlung, iii, 91. | Jordan, D. S. 1920 B, 470.
 Boulenger, G. A. 1904 D, 629. | 1921 A, 266.
 Dean, Gudger, Henn 1923 A, 589, 644. | 1923 A, 173.
 Frost, G. A. 1927 A, 439, pl. viii. | Jordan and Evermann 1896 A, 954.
 Goodrich, E. S. 1909 A, 475. | 1917 A, 54.
 Günther, A. C. 1860 A, 415, 416. | Because of the close relationship of *Lampris*
 Hubbs, C. L. 1924 A, 178. | to *Diatomæca* citations to the literature of the
 Jordan, D. S. 1905 A, ii, 244, fig. 194. | former are given.
 1907 B, 132, 458, figs. 84, 363.

Order THORACOSTEI Swinnerton.

- Swinnerton, H. H. 1902 A, 585 (March). | Jordan, D. S. 1903 A, 136 (Phthinobranchii).
 Hay, O. P. 1902 A, 396 (Phthinobranchii. June 9). | 1905 A, ii, 227-240 (Phthinobranchii).
 Boulenger, G. A. 1902 A, 151 (Catosteomi. | 1907 B, 442 (Phthinobranchii).
 August). | Rauther, M. 1913 A, 1102 (Catosteomi).
 1904 D, 626 (Catosteomi). | Regan, C. T. 1909 B, 78, 84.
 Dietz, P. A. 1917 A, 87 (Cateostomi). | 1912 B, 845.
 Eastman, C. R. 1911 C, 360. | Whitehouse, R. H. 1910 B, 605 (Catosteomi).
 Goodrich, E. S. 1909 A, 410 (Gasterosteiformes). | Zittel and Schlosser 1923 A, 133 (Gasterostei-
 Gregory, W. K. 1907 D, 452, 493 (Thoracostraci). | formes).

Suborder GASTEROSTEIFORMES Gill.

- Gill, T. 1872 C, 13. | Gregory, W. K. 1907 D, 452.
 Unless otherwise indicated the writers, as | Günther, A. C. 1880 A, 504 (Gasterosteiformes).
 cited, use for this group the name *Hemi- | Hubbs, C. L. 1919 B, 61.
 branchii*. | Jordan, D. S. 1904 A, 598.
 Hay, O. P. 1902 A, 396. | 1907 B, 442, 765.
 Allis, E. P. 1909 A, 195. | 1923 A, 173.
 Boulenger, G. A. 1902 A, 149. | Jordan and Gilbert 1882 A, 387.
 Cope, E. D. 1871 T, 456. | Meek, A. 1916 A, 187.
 1891 N, 25. | Regan, C. T. 1912 B, 845 (Gasterosteidae).
 Dean, Gudger, Henn 1923 A, 550, 589, 644. | 1913 A, 172, 182 (Gasterosteidae).
 Gill, T. 1884 E, 154. | Starks, E. C. 1902 A, 619, 623.
 1885 C, 280. | 1904 B, 601 ("hemibranchs").
 Goodrich, E. S. 1909 A, 410-412 (Gasterostei- | Whitehouse, R. H. 1905 B, 605.
 formes). | Woodward, A. S. 1901 A, xi, 369.

GASTEROSTEOIDÆ, new form.

- Gill, T. 1872 C, 13 (Gasterosteidae). | Starks, E. C. 1902 A, 623 (Gasterosteidae).
 1884 E, 154 (Gasterosteidae).

GASTEROSTEIDÆ Bonaparte.

- Bonaparte, C. L. 1838 B, 133. | Gill, T. 1875 B, 252.
 Hay, O. P. 1902 A, 397. | 1884 E, 155, 157.
 Abel, O. 1912 F, 565 (Gasterosteidae). | 1885 C, 280.
 Arldt, T. 1912 A, 760. | Goetsch, W. 1920 A, 473 ("gasterosteiden").
 1923 A, 520 ("gasterosteiden"). | Goodrich, E. S. 1909 A, 412.
 Bonaparte, C. L. 1840 A, 56. | Günther, A. C. 1881 A, 691.
 Boulenger, G. A. 1902 A, 149, 151 (Gasterosteidae). | Heilprin, A. 1887 A, 68.
 1904 A, 173 (Gasterosteidae). | Hoernes, R. 1886 A, 537.
 1904 D, 629 (Gasterosteidae). | Jordan, D. S. 1905 A, ii, 228, 571.
 1917 B, 330. | 1907 B, 443.
 Carus, V. 1875 A, 543 (Gasterosteidae). | 1923 A, 173.
 Cope, E. D. 1871 T, 457. | Jordan and Gilbert 1882 A, 392.
 Cunningham, J. T. 1912 A, 247. | Kiaer, J. 1924 A, 104.
 Dean, Gudger, Henn 1923 A, 644. | Klein, E. F. 1886 A, 274 (Gasterostei).
 Dietz, P. A. 1917 A, 87. | Leunis and Ludwig 1883 A, 698 (Gasterosteidae).
 Eigenmann, C. H. 1887 A, 233. | Meek, A. 1916 A, 187.
 Fitzinger, L. J. 1873 A, 34. | Owen, R. 1866 A, 193 (Gasterostei).
 Fryd, C. 1901 A, 24 (Gasterosteidae). | Rauther, M. 1913 A, 1102.

Regan, C. T. 1909 B, 84 (Gastrosteidae).
 1913 A, 169, 172 (Gastrosteidae).
 Siebenrock, F. 1901 A, 107.
 Starks, E. C. 1902 A, 619, 624, 626.

Trouessart, E. L. 1906 A, 212.
 Wallace, A. R. 1876 A, ii, 424.
 Whitehouse, R. H. 1910 B, 606.
 Woodward, A. S. 1901 A, xi, 370.

GASTROSTEUS Linn. Type *G. aculeatus* Linn.

Linnæus, C. 1758 A, 295.
 Hay, O. P. 1902 A, 397.
 Abel, O. 1912 F, 164, 571, 569.
 1922 F, 80.
 Allis, E. P. 1909 A, 213.
 1915 A, 566.
 1918 A, 243.
 Agassiz, A. 1877 A, 121, pl. ii, fig. 13.
 Arltdt, T. 1923 A, 521.
 Bardeleben, K. 1901 A, 28.
 Baudelot, E. 1873 A, 94.
 Bertin, L. 1921 A, 143.
 1921 B, 623.
 Born, G. 1827 A, 187.
 Boulenger, G. A. 1893 C, 228.
 1902 A, 149.
 1904 D, 630.
 Brandt, J. F. 1865 A, 26.
 Carlsson, A. 1894 A, 228.
 Cuvier, G. 1805 A.
 Dean, Gudger, Henn 1923 A, 681.
 Derjugin, K. M. 1909 A.
 1910 A, 616.
 Edgeworth, F. H. 1926 A, 187.
 Eigenmann, C. H. 1887 A, 233.
 Fryd, C. 1901 A, 24.
 Ganin, M. 1880 A, 143.
 Gaupp, E. 1911 A, 414.
 Geoffroy St. Hilaire, G. 1807 B, 414.
 Gill, T. 1884 E, 158.
 1885 C, 281, fig. 156.
 Goetsch, W. 1915 A, 460.
 1920 A, 13, 462, 473, pl. xx.
 Goodrich, E. S. 1909 A, 510, figs.
 Hague, F. 1924 A, 276.
 Hase, A. 1907 A.
 Hay, O. P. 1907 C, 271.
 Heilprin, A. 1887 A, 68, 288.
 Hubbs, C. L. 1926 A, 63.
 Huxley, T. H. 1859 D, 407, figs. 7, 8.
 1859 H, 33, pl. iii, figs. 1-4.
 1863 F, 191, fig. 25.
 Jordan, D. S. 1905 A, ii, 231, 571.
 1907 A, 131 (Merriamella, type *M. doryssa* Jordan).
 1907 B, 446.
 1910 C, 635.
 Jordan and Evermann 1896 A, 746.
 1917 A, 13.
 Jordan and Gilbert 1882 A, 393.
 Jungerson, H. F. E. 1910 A, 353.
 Kiaer, J. 1924 A, 104.
 Kindred, J. E. 1921 A, 427.
 1924 A, 422.
 Klein, E. F. 1884 A, 135, 145, 181, 203, 234, 246.
 1885 A, 118, 133, 235.
 1886 A, 217, 253, 274.
 Kner, R. 1862 A, 61.
 Leunis and Ludwig 1883 A, 698 (Gastrosteus).
 Mayer, A. F. 1862 A, 110.
 Mayhoff, H. 1914 A, 403.

Meckel, J. F. 1825 A.
 Noorden, C. 1883 A, 235.
 Norman, E. W. 1926 A, 401, fig. 53.
 Owen, R. 1845 B, 91.
 1868 A, 881.
 Pehrson, T. 1922 A.
 Pouehet, G. 1878 A, 35, 145.
 Prince, E. E. 1885 A, 487, pl. xiv.
 Regan, C. T. 1909 C, 435.
 1910 B, 533.
 Ridewood, W. G. 1904 A, 63 (Gastrosteus).
 Roth, F. 1920 A, 513.
 Ryder, J. 1885 E, 94.
 1885 F, 415.
 1886 A, 75.
 Schauinsland, H. 1906 A.
 Sehmalhausen, J. J. 1913 A, 12.
 Schmid-Monnard, C. 1883 A, 127, pl. ix.
 Solger, B. 1880 A, 378, 388.
 Starks, E. C. 1902 A, 622, 626, fig. 1.
 1916 A, 24.
 Swinnerton, H. H. 1902 A, 503, pls. xxviii-xxxi.
 1905 A, 319.
 1905 B, 369, pl. xxiii.
 1911 A, 452 ("sticklebacks").
 Thilo, O. 1879 A, 5, pl. i.
 1896 A, 306, pl. viii.
 1896 B, 100.
 1898 B, 86.
 Uhlmann, E. 1921 A, 305.
 Ussow, S. 1900 A, pls. i-iv.
 Wagner, R. 1843 A.
 Whitehouse, R. H. 1910 B, 605.
 Wilder, B. 1876 A, 166.

Gasterosteus aculeatus bispinosus Walbaum.

Walbaum, J. J. 1792, Artedi Pisc., 450 (G. bispinosus).
 Hay, O. P. 1902 A, 397 (G. bispinosus).
 Ami, H. M. 1901 C, 54 ("G. sp. indet." This species?).
 Bertin, L. 1921 B, 623 (G. aculeatus).
 Dawson, J. W. 1872 B, 403 (Gasterosteus).
 1872 C, 57, 99 (Gasterosteus).
 1894 C, 203, 267, pl. viii, fig. 2 (G. aculeatus?).
 Coleman, A. P. 1901 C, 224 (G. aculeatus).
 Hay, O. P. 1923 A, 287 (G. aculeatus).
 Jordan and Evermann 1896 A, 748 (G. bispinosus).
 Lambe, L. M. 1904 C, 39, 44 (G. bispinosus).
 Regan, C. T. 1909 C, 435 (G. aculeatus).
 Roth, F. 1920 A, 513 (G. aculeatus).
 Recent; Labrador to New Jersey: Pleistocene (Leda clay); Ontario.

Gasterosteus doryssus Jordan.

Jordan, D. S. 1907 A, 131, figs. 25, 26 (Merriamella).
 Eastman, C. R. 1917 A, 291 (G. doryssus).

- Hay, O. P. 1907 C, 271, text-figs. 1-3 (G. williamsi leptosomus).
 Hubbs, C. L. 1924 A, 177 ("Gasterosteus").
 Jordan, D. S. 1908 A, 117.
 1908 B, 811.
 Jordan and Beal 1913 A, 256.
 Mioocene (Lahontan); Nevada.

Order LOPHOBRANCHIA Latreille.

- Latreille, P. A.* 1825 A, 116.
 This name is usually spelled *Lophobranchia*.
Allis, E. P. 1909 A, 195.
Arlt, T. 1907 D, 663.
Bonaparte, C. L. 1831 A, 97, 119.
Boulenger, G. A. 1904 A, 174.
 1904 D, 629.
Bridge, T. W. 1896 A, 578.
Bronn, H. G. 1848 A, 688.
Carus, V. 1875 A, 585.
Cope, E. D. 1871 T, 457.
 1872 C, 335, 339.
 1891 N, 25, 26.
Dean, Gudger, Henn 1923 A, 687.
Fitzinger, L. J. 1873 A, 48.
Gill, T. 1872 C, xxxix, 2.
 1885 C, 285.
 1896 D, 153 ("lophobranchs").
Goetseh, W. 1920 A, 11, 453 ("lophobranchier").
Goodrich, E. S. 1909 A, 414.
Gregory, W. K. 1907 D, 493.
Günther, A. C. 1870 A, 150.
 1880 A, 678.
 1881 A, 688, 694.
Hollard, H. 1850 A, 565 ("lophobranches").
Huot, A. 1902 A.
Jordan, D. S. 1904 A, 598.
 1905 A, ii, 235.
 1907 B, 450.
 1923 A, 174.
Jordan and Gilbert 1882 A, 381.
Jungerson, H. F. E. 1910 A, 269.
 1910 B, 503.
Kaup, F. 1853 A, 226.
Kerr, R. 1860 B, 821.
Klein, E. F. 1879 A, 69 ("lophobranchen").
Meek, A. 1916 A, 195.
Müller, J. 1845 A, 102, 130.
 1846 C, 122, 131.
Owen, R. 1866 A, 12, 114, 368.
Parker, W. K. 1868 A, 32.
Pouchet, G. 1878 A, 49 ("lophobranches").
Regan, C. T. 1909 B, 78, 84.
 1912 B, 845.
Ryder, J. 1882 A, 191 ("lophobranchiates").
Schlosser, M. 1917 A, 142 ("lophobranchier").
Stannius, H. 1854 A, 7, seq.
Stephan, P. 1900 A, 295, 321 ("lophobranches").
Zittel and Koken 1911 A, 141.
Zittel and Schlosser 1923 A, 134.

SYNGNATHOIDÆ, new form.

- Gill, T.* 1885 C, 285 (Syngnathi).
Regan, C. T. 1912 A, 845 (Syngnathoidæ).

SYNGNATHIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 97, 119.
Arlt, T. 1907 D, 684.
 1923 A, 521 ("syngnathiden").
Bonaparte, C. L. 1838 B, 130.
Boulenger, G. A. 1904 A, 174.
 1904 D, 757.
 1917 B, 330.
Bridge, T. W. 1896 A, 578.
Carus, V. 1875 A, 585 (Syngnathoidæ).
Cope, E. D. 1871 T, 457.
 1872 C, 339.
Dean, Gudger, Henn 1923 A, 703.
Fries, B. F. 1838 A, 238 (Syngnathi).
Gill, T. 1885 C, 285.
 1896 D, 153, 157.
Goetseh, W. 1915 A, 438 ("syngnathiden").
Goodrich, E. S. 1909 A, 415.
Gregory, W. K. 1907 D, 493.
Günther, A. C. 1870 A, 153.
 1880 A, 679.
 1881 A, 694.
Hollard, H. 1850 A, 565 ("syngnathes").
Huot, A. 1902 A ("syngnathiniens").
Jordan, D. S. 1923 A, 174.
Jordan and Evermann 1898 A, 760.
Jordan and Gilbert 1882 A, 382.
Jungerson, H. F. E. 1910 A, 292, 346.
Kaup, F. 1853 A, 228.
Klein, E. F. 1884 A, 135, 150, 199, 201, 234, 244.
 1885 A, 108, 109, 128, 157, 164, 197, 199, 217, 251.
 1886 A, 205, 229, 268, 273, 285, 295.
Meek, A. 1916 A, 195.
Mivart, St. G. 1879 B, 540 ("sea-horses").
Norman, E. W. 1926 A.
Owen, R. 1866 A.
Rauther, M. 1913 A, 1016 ("syngnathiden").
Ryder, J. 1882 A, 191 ("sea-horses").
Schmallhausen, J. J. 1916 C, 212.
Siebenrock, F. A. 1901 A, 106.
Stannius, H. 1854 A (Syngnathi).
Woodward, A. S. 1901 A, 380.
Zittel and Koken 1911 A, 141 ("syngnathiden").
Zittel and Schlosser 1923 A, 134.

SYNGNATHUS Linn. Type *S. acus* Linn.

- Linnaeus, C.* 1758 A, 336.
Allis, E. P. 1909 A, 195, 198.
Arlt, T. 1923 A, 521.
Baudelot, E. 1873 A, 94.
Buist, T. P. 1912 A, 613, pl. xiii.
Dean, Gudger, Henn 1923 A, 703.
Fries, B. F. 1838 A, 236.
 1838 B, 251.
Goetseh, W. 1915 A, 441, pl. xviii; text-figs. 1.
 1920 A, 11, 38, 454, pl. xx.
Goodrich, E. S. 1909 A, 414.
Günther, A. C. 1870 A, 153.

- Huot, A. 1902 A, pls. xxi, xxvi.
 Jordan, D. S. 1917 A, 16.
 Jordan and Evermann 1898 A, 761 (Siphostoma).
 1917 A, 16.
 Jordan and C. Gilbert 1882 A, 383 (Siphostoma).
 Jordan and J. Z. Gilbert 1919 A, 34.
 Jungerson, H. F. E. 1910 A, 304, 353.
 1910 B, 569.
 Kasaneff, W. 1906 A, 854, figs. 1-6.
 Kindred, J. E. 1921 A, 425, figs. 1-14.
 1924 A, 421, pls. i-iii.
 Kingsley, J. S. 1925 A, 92, fig. 97.
 Klein, E. E. 1885 A, 108, 157, 197, 217, 252.
 McMurrich, J. P. 1883 A, 623, pls. xlii, xliii.
 Meek, A. 1916 A, 196.
 Owen, R. 1866 A, 195.
 Parker, W. K. 1868 A, 32.
 Pouchet, G. 1878 A, 34, 40, 76, 144, figs. ("syng-nathe").
 Rauther, M. 1913 A, 1061, fig. 5.
 Ryder, J. 1882 A, 194.
 Siebenrock, F. 1901 A, 118.
 Stannius, H. 1854 A, 75.
 Swinnerton, H. H. 1902 A, 575.
 Vogel, R. 1909 A, 534.
 Woodward, A. S. 1901 A, 382.
Syngnathus avus Jordan and Gilbert.
Jordan and Gilbert 1919 A, 34, pl. xxviii, fig. 8.
 Duinker, G. 1923 A, 239.
 Jordan, D. S. 1921 A, 259.
 1926 B, 223.
 1927 A, 191.
 Miocene (Monterey); California.

Order PERCOPSOMORPHI, new name.

- Unless otherwise indicated the authors, as quoted, use for this family the name Salmopercae. This is the plural of the genus name *Salmoperca*.
 Boulenger, G. A. 1904 D, 620 (Part of Haplomi).
 Frost, G. A. 1926 A, 470, pl. xx.
 Goodrich, E. S. 1909 A, 425.
 Jordan, D. S. 1923 A, 164 (Salmopercae); 165 (Xenarchi).
 Jordan and Evermann 1896 A, 782.
 Regan, C. T. 1909 B, 79, 84.
 1911 C, 294.
 1912 B, 842, 846.
 Jordan, D. S. 1905 A, 241.
 1907 B, 456, 765.

ERISMATOPTERIDÆ.

- Jordan, D. S. 1905 A, ii, 242, 296. | Jordan, D. S. 1907 B, 457.

ERISMATOPTERUS Cope. Type *E. rickseckeri* Cope.

- Hay, O. P. 1902 A, 404.
 Boulenger, G. A. 1902 E, 200.
 Eastman, C. R. 1917 A, 294.
 Jordan, D. S. 1903 A, 137.
 1905 A, ii, 242.
 1907 B, 457.
Erismatopterus endlichii Cope.
 Hay, O. P. 1902 A, 404.
 Cockerell, T. D. A. 1908 C, 176.
 Jordan, D. S. 1907 B, 457, fig. 362.
 Merrill, G. P. 1907 A, 11.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River); Wyoming.
Erismatopterus levatus Cope.
 Hay, O. P. 1902 A, 404.
 Cockerell, T. D. A. 1908 C, 176.
 Hussakof, L. 1908 A, 74.
 Jordan, D. S. 1905 A, ii, 242.
 1907 B, 457.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River); Wyoming.
Erismatopterus rickseckeri Cope.
 Hay, O. P. 1902 A, 404.
 Cockerell, T. D. A. 1908 C, 176.
 Hussakof, L. 1908 A, 74.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River); Wyoming.

AMPHIPLAGA Cope. Type *A. brachyptera* Cope.

- Hay, O. P. 1902 A, 403.
 Boulenger, G. A. 1902 E, 200.
 Eastman, C. R. 1917 A, 294.
 Jordan, D. S. 1903 A, 137.
 1905 A, ii, 243.
 1907 B, 458.
 Zittel and Koken 1911 A, 132.
Amphiplaga brachyptera Cope.
 Hay, O. P. 1902 A, 403.
 Cockerell, T. D. A. 1908 C, 176.
 Merrill, G. P. 1907 A, 6.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River); Wyoming.

ASINEOPIDÆ Cope.

- Cope, E. D. 1870 H, 380.
 Hay, O. P. 1902 A, 403 (Aphrododeridæ, part).
 Cockerell, T. D. A. 1914 A, 191.
 Jordan, D. S. 1905 A, 243, 296, 317.
 Jordan, D. S. 1907 B, 458, 532.
 1923 A, 165.
 Woodward, A. S. 1901 A, 416.
 Zittel and Koken 1911 A, 132.

ASINEOPS Cope Type *A. squamifrons* Cope.

- Hay, O. P. 1902 A, 404.
 Boulenger, G. A. 1902 E, 200.
 1904 D, 656.
 Cockerell, T. D. A. 1914 A, 191.
 Eastman, C. R. 1917 A, 294.
 Haseman, J. D. 1912 A, 98.

Jordan, D. S. 1903 A, 137.
Zittel and Koken 1911 A, 132.

Asineops pauciradiatus Cope.

Hay, O. P. 1902 A, 404.
Cockerell, T. D. A. 1908 C, 176.
1914 A, 191.
Merrill, G. P. 1907 A, 6.
Woodward, A. S. 1901 A, 417.
Eocene (Green River); Wyoming.

Asineops squamifrons Cope.

Hay, O. P. 1902 A, 404.
Cockerell, T. D. A. 1908 C, 176.
1914 A, 191.
Hussakof, L. 1908 A, 63.
Jordan, D. S. 1905 A, 243, 217.
1907 B, 532.
Merrill, G. P. 1907 A, 7.
Woodward, A. S. 1901 A, 417.
Eocene (Green River); Wyoming.

APHREDODERIDÆ Günther.

Günther, A. C. 1859 A, 271.
Hay, O. P. 1902 A, 403.
Arlt, T. 1907 D, 280, 284.
1923 A, 678 (Aphredoderus).
Bonaparte, C. L. 1846, Cat. Met. Pesci Europei,
7 (Aphredodeiridæ).
Boulenger, G. A. 1902 E, 199.
Cockerell, T. D. A. 1906 A, 163.
1913 B, 152.
1916 A, 899 (Aphredoderus).
Dean, Gudger, Henn 1923 A, 375, 499, 647 (Aphre-
doderus).
Gill, T. 1875 B, 252.
Goodrich, E. S. 1909 A, 427.

Jordan, D. S. 1905 A, ii, 294, 557.
1907 B, 509.
1919 B, 178.
1923 A, 165.
Jordan and Gilbert 1882 A, 460.
Regan, C. T. 1911 C, 296.
1911 D, 320.
Schlosser, M. 1917 A, 144 ("aphredoderiden").
Starks, E. C. 1904 B, 603.
Wallace, A. R. 1876 A, ii, 425.
Woodward, A. S. 1901 A, 416.
Zittel and Koken 1911 A, 132 (Aphredoderidæ).
Zittel and Schlosser 1923 A, 138.

TRICHOPHANINÆ Cockerell.

Cockerell, T. D. A. 1913 B, 152.

Cockerell, T. D. A. 1908 A, 573 (Trichophanidæ).

TRICHOPHANES Cope. Type *T. hians* Cope.

Hay, O. P. 1902 A, 404.
Boulenger, G. A. 1902 E, 200.
Cockerell, T. D. A. 1906 A, 163.
1908 A, 570.
Eastman, C. R. 1917 A, 294.
Jordan, D. S. 1903 A, 137.
Schlosser, M. 1917 A, 144.

Trichophanes copei Osborn, Scott, and Speir.

Hay, O. P. 1902 A, 404.
Cockerell, T. D. A. 1906 A, 163.
1908 A, 571.
1908 C, 176.
Woodward, A. S. 1901 A, 416.
Miocene (Florissant); Colorado.

Trichophanes foliarum Cope.

Hay, O. P. 1902 A, 404.
Cockerell, T. D. A. 1906 A, 163.
1908 A, 571, figs. 1, 2.
1908 C, 176.
1913 B, 252.
Eastman, C. R. 1917 A, 294.
Jordan, D. S. 1910 B, 186.
Merrill, G. P. 1907 A, 20.
Woodward, A. S. 1901 A, 416.
Miocene (Florissant); Colorado.

Trichophanes hians Cope.

Hay, O. P. 1902 A, 404.
Merrill, G. P. 1907 A, 20.
Tertiary ("coal shales"); Nevada.

Order HETEROSOMATA Bonaparte.

Bonaparte, C. L. 1846, Cat. Met. Pesci Europ.,
47.
Boulenger, G. A. 1902 B, 302 (Zeorhombi, part).
Cockerell, T. D. A. 1913 B, 171.
Cope, E. D. 1871 T, 456.
1872 C, 340.
1891 N, 25, 26.
Dean, Gudger, Henn 1923 A, 653.
Gill, T. 1861 A, 7.
1872 C, 2.
1885 C, 275.
Goode and Bean 1895 A, 426.
Gregory, W. K. 1907 D, 453.
Günther, A. C. 1880 A, 553 (Pleuronectoidei).
1881 A, 692 (Pleuronectoidei).

Jordan, D. S. 1905 A, ii, 247, 481.
1907 B.
1923 A, 166.
Jordan and Evermann 1896 A.
Jordan and Gilbert 1882 A, 813.
Klein, E. F. 1879 A, 103 (Pleuronectoidei).
Kner, R. 1861 A, 235 (Pleuronectides).
Mayhoff, H. 1914 A, 389.
Meek, A. 1916 A, 356.
Müller, J. 1846 C (Anacanthini, in part).
Regan, C. T. 1909 B, 80.
1910 C, 484, 491.
1912 B, 842, 850.
1913 B, 111.

HIPPOGLOSSIDÆ Jordan.

Jordan, D. S. 1923 A, 168.
1905 A, ii, 489 (Hippoglossinæ).
1925 B, 17.

Jordan and Evermann 1898 A, 2605 (Hippoglossinæ).
Kyle, H. M. 1921 A, 75 ("flat-fishes").

ISOMMA Jordan. Type *I. pristinum* Jordan.

Jordan, D. S. 1927 B, 94.

Isomma pristinum Jordan.

Jordan, D. S. 1927 B, 95.
Upper Miocene (Monterey); California.

HIPPOGLOSSUS Cuvier. Type *H. hippoglossus* (Linnæus).

Cuvier, G. 1817, Règne Anim., ed. 1, ii, 221.
Gill, T. 1885 C, 276.
Günther, A. C. 1862 A, 402.
Jordan, D. S. 1925 B, 17.
Jordan and Evermann 1898 A, 2611.
Jordan and Gilbert 1882 A, 818.

Kyle, H. M. 1921 A, 77, 89, pl. vi, figs. 35, 36.

Hippoglossus antiquus Jordan.

Jordan, D. S. 1924 B, 43, pl. G.
1925 B, 18.
Miocene (Monterey); California.

VORATOR Jordan. Type *Hippoglossus antiquus* (in part) Jordan.

Jordan, D. S. 1925 B, 17.

Vorator antiquus (Jordan).

Jordan, D. S. 1924 B, pl. G (Hippoglossus antiquus, in part).
1925 B, 18, pls. viii, ix.
Miocene (Monterey); California.

PLEURONECTIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 96, 117.
Abel, O. 1921 A, 159 ("pleuronektiden").
Allis, E. P. 1909 A, 195, 214.
Arlt, T. 1923 A, 692 ("pleuronektiden").
Bassoli, G. G. 1906 A, 46, pl. ii (otoliths).
Berrill, N. J. 1925 A, 217, figs. 1-15 (Pleuronectes, Solea).
Bonaparte, C. L. 1838 B, 131.
Boulenger, G. A. 1902 B, 295, 303.
1904 A, 183.
1904 D, 751.
1917 B, 329.
Bridge, T. W. 1896 A, 559.
Carus, V. 1875 A, 554 (Pleuronectoidei).
Cockerell, T. D. A. 1913 B.
Cope, E. D. 1871 T, 458.
1872 C, 340.
Creaser, C. W. 1926 A, 53.
Cunningham, J. T. 1905 A, 125, pls. vii-ix.
Cuvier, G. 1805 A ("pleuronectes").
Dahl, K. 1909 A, 760.
Dean, Gudger, Henn 1923 A, 696.
Dietz, P. A. 1917 A, 86.
1921 A, 433.
Fitzinger, L. J. 1873 A, 42 (Pleuronectæ).
Fulton, T. W. 1906 A, 50, 69, pls. i B, iii A.
Gill, T. 1865 D, 215 (Pleuronectoidæ).
1872 C, 2.
1885 C, 276.
1889 B, 593, 606.
Goette, A. 1901 A, 533 ("pleuronektiden").
Goode and Bean 1895 A, 426.
Goodrich, E. S. 1909 A, 469.
Gregory, W. K. 1907 D, 499.
Günther, A. C. 1862 A, 399.
1880 A, 553.
1881 A, 692.
Hasse, C. 1872 A ("pleuronecten").

Hasse and Schwarck 1870 A, 46 ("pleuronektiden").
Jordan, D. S. 1911 A, 432.
1923 A, 169.
Jordan and Evermann 1898 A, 2602.
Jordan and Gilbert 1882 A, 813.
Kingsley, J. S. 1925 A, 71, 93, 107, 108, 224, 225, 237, figs. 74, 98, 114, 235 (Pleuronectes).
Klein, E. F. 1868 A ("pleuronecten").
1868 B, 271 (Pleuronectæ).
1879 A, 123 (Pleuronecta).
1884 A, 131, 137, 145, 193, 224, 244, 246.
1885 A, 120, 142, 164, 182, 209, 239.
1886 A, 221, 256, 287. *
Kner, R. 1861 A, 235 (Pleuronectes).
Köstlin, O. 1844 A ("plattfische").
Kyle, H. M. 1921 A, 75 ("flat-fishes").
Ledouble, A. F. 1906 A, 551 ("pleuronektidés").
Leunis and Ludwig 1883 A, 714.
Mayhoff, H. 1914 A, 389 ("plattfische").
Meek, A. 1916 A, 256, 411, 414.
M'Donnell, R. 1864 A, 173.
Meckel, J. F. 1825 A ("pleuronecten").
Norman, E. W. 1926 A, 425 (Pleuronectes).
Owen, R. 1845 B, 106 ("pleuronectoids").
1848 B, 90, fig. 16.
1860 E, 149.
1866 A.
Regan, C. T. 1910 C, 490, 493.
1912 B, 850.
Sauvage, H. E. 1872 A, 1118 ("pleuronectes").
Schlödte, J. C. 1868 A, 378.
Schlosser, M. 1917 A, 142 ("pleuronektiden").
Schubert, R. J. 1906 A, 670.
Shepherd, C. E. 1916 A, 178, 184.
Siebenrock, F. 1901 A, 107.
Stannius, H. 1849 A, 539 (Pleuronectes).
1854 A, 5, seq. (Pleuronectides).

- Terra, P. 1911 A, 213.
 Thilo, O. 1899 A, 175 ("schollen").
 1901 A, 315 ("schollen").
 1902 A, 305 ("schollen").
 1902 B, 717 ("schollen").
 1920 A, 119 ("schollen").
 Thompson, W. 1865 A, 361.
 Tomes, C. S. 1877 A, 45.
 1878 A, 45, pl. iv (Pleuronectes).
 Traquair, R. H. 1865 A, 263.
 1865 B, 215.
 Tretjakoff, D. 1925 A, 379, figs. 1-4 ("pleuronectiden").
- Van Beneden, P. J. 1853 A, 340 ("pleuronectes").
 Wagner, R. 1843 A ("schollen").
 Wallace, A. R. 1876 A, ii, 440.
 Webb, W. M. 1905 A, 60, figs. 7, 8 ("flat-fish").
 Weber, E. H. 1821 A, 1062 (Pleuronectis).
 Weiler, W. 1922 A, 74 (otoliths).
 Williams, S. R. 1902 A, 1-57 ("flounders").
 Wright, E. P. 1878 A, 287, figs. 1-3 ("flounders").
 1878 B, 150 ("flounders").
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 149.

EVESTHES Gilbert. Type *E. jordani* Gilbert.

- Gilbert, J. Z. 1910 A, 407.
 Jordan, D. S. 1925 B, 17.
 Jordan and Gilbert 1920 A, 37.
- Evesthes jordani** Gilbert.
- Gilbert, J. Z. 1910 A, 407, pl. xlii.
 Jordan, D. S. 1911 A, 436.
 1921 A, 263, pl. xxxiv.
- Jordan and Gilbert 1919 A, 58, pl. xxv, xxvi.
 1920 A, 37, pl. xxiv.
 Miocene (Monterey); California.
- Evesthes hooveri** Jordan.
- Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 38, pl. xxvi.
 Jordan, D. S. 1921 A, 263, pls. xi, xxxv.
 Miocene (Monterey); California.

ZORORHOMBUS Jordan. Type *Zororhombus veliger* Jordan.

- Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 39.
 1921 A, 264.
- Zororhombus veliger** Jordan.
- Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 39, pl. xxvii.
 1921 A, 264.
 1921 B, 462, figs. 3, 4.
 1922 D, 271, fig. 1.
 Miocene (Monterey); California.

Order PERCOMORPHI Cope.

- Cope, E. D. 1871 T, 456.
 Unless otherwise indicated the authors, as quoted, use for this group the name Acanthopterygii. The writers are not well agreed on the limits of the Order.
- Hay, O. P. 1902 A, 400 (Percomorphi).
 Abel, O. 1912 F, 441.
 1919 A, 157.
- Agassiz, L. 1835 I, 99 ("cténoidians").
 1840 C, 105 ("cténoides").
 1844 D, 139 ("cténoides").
 1844 E, 332 ("cténoides").
 1845 C, 323 ("cténoides").
- Allis, E. P. 1905 A, 464.
 1907 A, 569.
- Arlt, T. 1907 D, 635 (Acanthopteri).
 1923 A, 673 ("acanthopteren").
- Bardeleben, K. 1907 A, 36 (Acanthopteri).
 Bonaparte, C. L. 1833 B, 1197.
- Boulenger, G. A. 1902 B, 298 ("acanthopterygians").
 1902 C, 389.
 1904 A, 177 (Acanthopterygii, Percomorphi).
 1904 D, 650.
- Bridge, T. W. 1896 A, 560.
 Bronn, H. G. 1849 A, 589, 830 (Acanthopteri).
 Carus, V. 1875 A, 516 (Acanthopteri).
 Cockerell, T. D. A. 1913 B, 149 (Percomorphi);
 143 (Acanthopteri).
 Cope, E. D. 1891 N, 25, 26.
 Cunningham, J. T. 1912 A, 247.
- Dean, Gudger, Henn 1923 A, 694 (Perciformes).
 Dietz, P. A. 1917 A, 81, 86 (Perciformes).
 Dollo, L. 1909 B (137) ("acanthoptérygiens").
 Eastman, C. R. 1905 A, 55.
 1908 A, 64.
 1911 A, 20, 45.
- Fowler, H. W. 1911 A, 168 (Acanthopteri); 175 (Percomorphi).
 Gill, T. 1885 C, 181 (Acanthopterygii).
 1905 A, 659.
- Goodrich, E. S. 1909 A, 424.
 Gregory, W. K. 1907 D, 452 (Acanthopteroidei, Acanthopterygii); 453 (Percomorphi).
 Hoernes, R. 1886 A, 532 (Anarthropteri).
 Hubbs, C. L. 1919 B, 61.
- Ihering, H. 1891 C, 24 ("acanthopterygier").
 Jaekel, O. 1911 A, 95.
- Jordan, D. S. 1903 A, 171.
 1905 A, ii, 253, 585 (Percomorphi).
 1907 B, 473, 765 (Percomorphi).
 1923 A, 177 (Percomorphi).
- Jordan and Gilbert 1882 A, 397 (Acanthopteri).
 Klaatsch, H. 1890 A, 175 ("acanthopterygier").
 Klein, E. F. 1884 A, 135, 140, 156 (Acanthopterygia).
 1886 A, 207, 236, 251, 274 ("acanthopterygien").
 Kner, R. 1860 B, 814 (Acanthopteri).
 Köstlin, O. 1844 A ("acanthopterygier").
 Latreille, P. A. 1825 A, 128 (Acanthopterygia).
 Leunis and Ludwig 1883 A, 658 (Acanthopteri).

- Lönnberg, E. 1901 A (Acanthopterygia).
 1902 A (Acanthopteri).
 Lütken, C. 1868 C (Acanthopteri).
 Meek, A. 1916 A, 284, 414.
 Müller, J. 1845 A, 102, 130, 135 (Acanthopteri).
 1846 C (Acanthopteri).
 Owen, R. 1866 A, 112, 193 (Acanthopteri).
 Parker and Haswell 1897 A, 205 (Acanthopteri).
 Rauther, M. 1913 A, 1103.
 Regan, C. T. 1909 A, 70 (Percomorphi).
 1909 B, 80, 85 (Percomorphi).
 1912 B, 830, 843, 850 (Percomorphi).
 1913 B, 111, 113 (Percomorphi).
 Richardson, J. 1836 A, 1.
 Schlosser, M. 1917 A, 142 ("acanthopterygier").
 Stannius, H. 1854 A (Acanthopteri).
 Starks, E. C. 1908 A, 415.
 Stephan, P. 1898 A, 358 ("acanthopterygiens").
 1900 A, 292 ("acanthopterygiens").
 Terra, P. 1911 A, 216 (Acanthopteri).
 Wagner, R. 1843 A, 204.
 Whitehouse, R. H. 1910 C, 141.
 1910 H, 610.
 Woodward, A. S. 1898 B, 121 (Percomorphi).
 1901 A, xi, 384.
 1906 C, 281.
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 137.
 Zittel and Woodward 1902 A, 104 (Acanthopteri).

Suborder BERYCIFORMES Günther.

- Günther, A. C. 1880 A, 419.
 Dean, Gudger, Henn 1923 A, 590 (Berycomorphi).
 Boulenger, G. A. 1902 C, 389.
 Eastman, C. R. 1911 C, 363.
 Frost, G. A. 1927 A, 440 (Berycomorphi).
 Goodrich, E. S. 1909 A, 426.
 Günther, A. C. 1881 A, 689.
 Jordan, D. S. 1923 A, 172 (Berycoidei).
 Leunis and Ludwig 1883 A, 674.
 Regan, C. T. 1909 B, 80 (Berycomorphi).
 1911 A, 1-9 (Berycomorphi).
 1912 B, 842, 849 (Berycomorphi).
 Woodward, A. S. 1901 A, 384.
 Zittel and Schlosser 1923 A, 137.

BERYCOIDÆ, new form.

- Hay, O. P. 1902 A, 402 (Berycoidea).
 Allis, E. P. 1909 A, 201 (Berycoidea).
 Arltdt, T. 1923 A, 677 ("beryciden").
 Boulenger, G. A. 1902 E, 198 (Berycoidea).
 Cockerell, T. D. A. 1913 B, 148 (Berycoidea).
 Fitzinger, L. J. 1873 A, 29 (Beryces).
 Fowler, H. W. 1911 A, 172 (Berycoidei).
 Gill, T. 1885 C, 181 (Berycoidea).
 Gregory, W. K. 1907 D, 452 (Berycoidei).
 Jordan, D. S. 1905 A, ii, 250, 559 (Berycoidei).
 Jordan, D. S. 1907 B, 465, 765 (Berycoidei).
 Klein, E. F. 1879 A, 89 (Berycidæ).
 1884 A, 135, 139, 203, 245 (Berycidæ).
 1885 A, 109, 133, 165, 224 (Berycidæ).
 1886 A, 207, 237, 274 ("beryciden").
 Regan, C. T. 1909 B, 80 (Berycoidei).
 Schlosser, M. 1917 A, 140, 142 ("beryciden").
 Starks, E. C. 1904 B, 601 ("berycoid fishes").
 Woodward, A. S. 1898 C, 259 ("berycoids").
 1906 C, 281 ("berycoids").

HOPLOPTERYGIDÆ Cockerell.

- Cockerell, T. D. A. 1919 A, 186.
 Jordan, D. S. 1923 A, 172.
 Regan, C. T. 1911 A, 4 (Berycidæ).

HOPLOPTERYX Agassiz. Type *H. antiquus* Agassiz.

- Agassiz, L. 1843 B (1838), iv, 4.
 Hay, O. P. 1902 A, 402 (Beryx).
 Cockerell, T. D. A. 1919 A, 186.
 Goodrich, E. S. 1909 A, 427.
 Regan, C. T. 1911 A, 4.
 Woodward, A. S. 1901 A, 396.
 Zittel and Koken 1911 A, 131, fig. 242.
 Zittel and Schlosser 1923 A, 138, fig. 234.
Hoplopteryx? insculptus (Cope).
 Hay, O. P. 1902 A, 402 (Beryx).
 Cockerell, T. D. A. 1919 A, 187 (Hoplopteryx?).
 Fowler, H. W. 1911 A, 173, fig. 106 (Beryx).
 Hussakof, L. 1908 A, 63, fig. 31 (Beryx).
 Jordan, D. S. 1905 A, ii, 251 (Beryx).
 Woodward, A. S. 1901 A, 386 (Beryx).
 Upper Cretaceous (Navesink, Red Bank);
 New Jersey.

TRICHIUROIDÆ, new form.

- Günther, A. C. 1880 A, 433 (Trichiuriformes).
 1881 A, 689 (Trichiuriformes).
 Regan, C. T. 1909 A, 70 (Trichiuriformes, as "division").
 Regan, C. T. 1909 B, 86 (Trichiuriformes, as "division").
 1913 B, 111 (Trichiuroidea, as subord.).

GEMPYLIDÆ Gill.

- Gill, T. 1893 B, 97.
 1862 C, 125, 126 (Gempylinæ).
 1862 D, 329 (Gempylinæ).
 1893 A, 133 (Gempylinæ).
 Günther, A. 1860 A, 342 (Trichiuridæ, in part).
 Jordan, D. S. 1923 A, 180.
 Jordan and Evermann 1898 A, 877.
 Lütken, C. F. 1881 A, 7.
 Regan, C. T. 1909 A, 70.
 1909 B, 86.

THYRSITES Cuvier. Type *Scomber atun* Euphrasen.

Cuvier, G. 1829, Règne Animal, ed. 2, vol. ii, 200.

Aldt, T. 1923 A, 691.

Frost, G. A. 1928 B, 328, pl. xii.

Jordan and Evermann 1898 A, 878.

Jordan and Gilbert 1919 A, 41, 42.

Lütken, C. F. 1881 A, 7.

Woodward, A. S. 1901 A, 481.

Thyrsites kriegeri Jordan and Gilbert.

Jordan and Gilbert 1919 A, 41, pl. xvii, fig. 2.

Miocene (Monterey); California.

TRICHIURIDÆ Adams, Bakie, Barron.

Adams, Bakie, Barron 1854 A, 98.

Hay, O. P. 1902 A, 403.

Abel, O. 1922 F, 81.

Ardt, T. 1907 D, 686.

1923 A, 690 ("trichiuriden").

Boulenger, G. A. 1904 A, 182.

1904 D, 679.

Carus, V. 1875 A, 531 (Trichiuroidei).

Dean, Gudger, Henn 1923 A, 590, 593, 652.

Gill, T. 1885 C, 206.

Goodrich, E. S. 1909 A, 466.

Günther, A. C. 1860 A, 342.

Hoernes, R. 1886 A, 535.

Jordan, D. S. 1905 A, ii, 267, 596.

1923 A, 180.

Jordan and Gilbert 1882 A, 421.

Klein, E. F. 1885 A, 229.

Meek, A. 1916 A, 331.

Priem, F. 1908 B, 137 ("trichiurides").

Regan, C. T. 1909 A, 71.

Schlösser, M. 1917 A, 143, 148 ("trichiuriden").

Starks, E. C. 1911 B, 19.

Zittel and Koken 1911 A, 136.

Zittel and Schlösser 1923 A, 147.

TRICHIURUS Linn. Type *T. lepturus* Linn.

Hay, O. P. 1902 A, 403.

Ardt, T. 1923 A, 690.

Dean, Gudger, Henn 1923 A, 705.

Duméril, A. 1856 A, 227 ("trichiure").

Frost, G. A. 1928 B, 328, pl. xii.

Giebel, C. G. 1855 A, 104.

Jordan and Evermann 1917 A, 12.

Jordan and Gilbert 1882 A, 422.

Klein, E. F. 1884 A, 135, 185, 212, pl. ii.

1885 A, 202, 229.

1886 A, 243, 279.

Leunis and Ludwig 1883 A, 679.

Lütken, C. F. 1881 A, 7.

Starks, E. C. 1911 B, 25.

Trichiurus lepturus Linn.

Hay, O. P. 1902 A, 403.

1923 A, 363, 366.

Hussakof, L. 1908 A, 102.

Recent West Indies to Virginia: Quaternary;

South Carolina.

Suborder SCOMBRIFORMES Günther.

Günther, A. C. 1880 A, 438.

Ardt, T. 1923 A, 689 ("scombriformen").

Boulenger, G. A. 1902 B, 301.

1904 A, 177, 181.

1904 D, 675.

Cunningham, J. T. 1912 A, 247.

Dean, Gudger, Henn 1923 A, 700.

Dietz, P. A. 1914 A, 124.

Eastman, C. R. 1911 C, 364.

Goetsch, W. 1920 A, 494.

Goodrich, E. S. 1909 A, 462.

Gregory, W. K. 1907 D, 454.

Jordan, D. S. 1923 A, 179.

Regan, C. T. 1909 A, 66, 70 (Scombroidei).

1909 B, 81 (Scombroidei).

1912 B, 850 (Scombroidei).

1913 B, 111 (Scombroidea).

Woodward, A. S. 1901 A, 418.

Zittel and Schlösser 1923 A, 145.

SCOMBROIDÆ, new form.

Unless otherwise indicated the authors, as quoted, use for this group the name Scombroidea.

Hay, O. P. 1902 A, 402.

Cockerell, T. D. A. 1913 B, 149.

Frost, G. A. 1928 A, 329.

Gill, T. 1872 C, 8.

1873 F, 9.

1885 C, 182.

Hoernes, R. 1886 A, 535 (Scombroidei).

Jordan, D. S. 1905 A, ii, 258, 591.

1907 B, 473, 765.

Lönnberg, E. 1902 A (Scombroidei).

Owen, R. 1845 B, 121 ("scomberoids").

Rauther, M. 1913 A, 1103 (Scombriformes).

Regan, C. T. 1909 A, 71 (Scombriformes);

72 (Xiphiiformes).

Schlesinger, G. 1909 A (152), (Scombriformes).

Starks, E. C. 1909 A, 574 (Scombroidei).

1910 A, 77 ("scombroids").

1911 B, 1 ("scombroid fishes").

CYBIIDÆ Jordan.

Jordan, D. S. 1925 B, 19.

THYRSION Jordan. Type *T. velox* Jordan.

Jordan and Gilbert 1920 A, 7, 17, 45.

Jordan, D. S. 1925 B, 21.

Jordan, D. S. 1925 B, 21, pl. x.

Miocene (Monterey); California.

ThyrSION velox Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert 1920 A, 7, 17, pl. viii (not pl. ix = *Diradiaz fenestralis*).

THYRSOCLES Jordan and Gilbert. Type *T. kriegeri* Jordan.

Jordan and Gilbert 1920 A, 7, 19, 45.

Jordan, D. S. 1925 B, 19.

Jordan, D. S. 1921 A, 273, pl. xxxvi, fig. a.

1925 B, 19; 20 (*Thyrsoeles escharion* a syn.?).

1927 B, 90.

Miocene (Monterey); California.

Thyrsoeles kriegeri Jordan and Gilbert.

Jordan and Gilbert 1920 A, 7, 20, 45, pl. xii (not pl. xi = *Escharion townleyi*).

ZAPHLEGES Jordan. Type *Zaphleges longurio* Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 23, 24.

1921 A, 271.

Jordan, D. S. 1925 B, 22, pl. xi.

1927 B, 90.

Miocene (Monterey); California.

Zaphleges longurio Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 24, pl. xiii.

1921 A, 271, pl. xxxviii, fig. a.

Zaphleges vigilax Jordan.

Jordan, D. S. 1927 B, 90.

Upper Miocene (Lompoc); California.

ESCHARION Jordan. Type *Thyrocles kriegeri* Jordan, not of Jordan and Gilbert.

Jordan, D. S. 1925 B, 24.

Escharion townleyi Jordan.

Jordan, D. S. 1925 B, 25.

Jordan, D. S., in Jordan and Gilbert, J. Z. 1920 A, 20, pl. xi (*Thyrocles kriegeri*; not of Jordan and Gilbert).

Miocene (Monterey); California.

TURIO Jordan and Gilbert. Type *Turio wilburi* Jordan and Gilbert.

Jordan and Gilbert 1920 A, 13, 15.

Jordan, D. S. 1921 A, 223.

Turio culveri Jordan.

Jordan, D. S. 1925 B, 23, pl. 10.

Miocene (Monterey); California.

Turio wilburi Jordan and Gilbert.

Jordan and Gilbert 1920 A, 15, pls. vi, vii.

Jordan, D. S. 1921 A, 273, pl. xxxvii.

1925 B, 23.

Miocene (Monterey); California.

STARRIAS Jordan. Type *S. ischyryus* Jordan.

Jordan, D. S. 1925 B, 25.

Starrias ischyryus Jordan.

Jordan, D. S. 1925 B, 25, pl. xii.

Miocene (Monterey); California.

XESTIAS Jordan. Type *X. iratus* Jordan.

Jordan, D. S. 1921 A, 270.

Xestias iratus Jordan.

Jordan, D. S. 1921 A, 270, pl. iv, fig. a.

1925 B, 23.

Miocene (Monterey); California.

OCYSTIAS Jordan. Type *Ocystias sagitta* Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert 1920 A, 14, 18.

Ocystias sagitta Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert 1920 A, 18, pl. x.

Jordan, D. S. 1921 A, 273, pl. xxxviii, fig. a.

1922 D, 272, fig. 3.

1925 B, 22.

1927 B, 91.

Miocene (Monterey); California.

OZYMANDIAS Jordan. Type *O. gilberti* Jordan.

Jordan, D. S. 1919, in Jordan and Gilbert 1919 A, 43.

The position of this genus is obscure. It may belong to the Scombridae.

Ozymandias gilberti Jordan.

Jordan, D. S. 1919, in Jordan and Gilbert 1919 A, 43 (Not *O. gilberti* of Jordan and Gilbert, 1920 A, 36).

1907 A, 134, pl. xi (*Luvanus* sp.).

1921 A, 275, pl. xiii.

Miocene; California.

SCOMBRIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 91, 107.

Abel, O. 1906 C, 84.

Agassiz, L. 1832 A, 142 ("scomberoiden").

Allis, E. P. 1903 B, 45, pls. i-xii (Scomber).

1909 A, 214 (Scomber).

1919 E, 366 (Scomber).

1922 B, 194, 201, 208 (Scomber).

1923 B, 124 (Scomber).

Arlt, T. 1923 A, 690 ("scombriden").

Baudelot, E. 1873 A, 101 ("scomberoides").

Bonaparte, C. L. 1833 B, 1198.

1838 B, 133.

Boulenger, G. A. 1904 D, 678, 755.

Bridge, T. W. 1896 A, 567.

Carus, V. 1875 A, 533 (Scomberoidei).

Cockerell, T. D. A. 1910 E, 47 ("scombrids").

1913 B, 149.

Cuvier, G. 1805 A ("scombres").

Dean, Gudger, Henn 1923 A, 590, 647, 652.

Dewitz, J. 1904 A, 408 (Scomber).

Dietz, P. A. 1914 A, 124.

Fryd, C. 1901 A, 21 (Scomberidae).

Fulton, T. W. 1906 A, 57, pl. iii B.

Gaupp, E. 1905 D, 913 (Scomber).

Gill, T. 1862 C, 124 (Scombroidei).

1862 D, 328-329 ("scombrids").

1885 C, 191.

Goetsch, W. 1920 A, 495.

Goodrich, E. S. 1909 A, 465.

Günther, A. C. 1881 A, 690.

Heckel, J. J. 1856 A, 261 (Scomberoidei).

Jordan, D. S. 1935 A, ii, 258, 272, 470.

1907 A, 133.

1923 A, 179.

1925 B, 26.

Jordan and Evermann 1896 A, 863.

Jordan and Gilbert 1882 A, 422.

Jordan and Gilbert, J. Z. 1920 A, 13.

Kingsley, J. S. 1925 A, 97, 112, fig. 117 (Scomber).

Klein, E. F. 1879 A, 92.

1884 A, 135, 186, 213.

1885 A, 111, 136, 169, 199, 200, 202, 229.

1886 A, 211, 243, 280.

Kner, R. 1861 A, 258 ("scombriden"); 773 (Scomberoidei).

Köstlin, O. 1844 A ("scomberoiden").

Leunis and Ludwig 1883 A, 682.

M'Donnell, R. 1864 A, 172.

Masterman, A. T. 1894 A, 272, pls. xi, xii ("tunny").

Meckel, J. F. 1825 A (Scomber).

Meek, A. 1916 A, 319.

Norman, E. W. 1926 A, 403 (Scomber).

Owen, R. 1845 B, 121 ("scomberoids").

1866 A (Scomberidae).

Priem, F. 1908 B, 99 ("scombrides").

Regan, C. T. 1903 C, 372.

1909 A, 72.

Schlosser, M. 1917 A, 142 ("scombriden").

Shepherd, C. E. 1910 B, 297.

1912 A, 455.

Siebenrock, F. 1901 A, 107.

Stannius, H. 1849 A, 540 ("scombroiden").

1854 A, 4, seq. (Scomberoidei).

Starks, E. C. 1909 A, 573.

1910 A, 77, 79 (Scombrinae).

1911 B, 11, 21, 27.

1916 A, 27.

Stephan, P. 1900 A, 286 (Scomber).

Storms, R. 1892 A, 2 ("scombrides").

Terra, P. 1911 A, 216.

Wallace, A. R. 1876 A, ii, 429.

Weiler, W. 1922 A, 77 (otoliths).

Whitehouse, R. H. 1918 A, 138 (Scomber).

Woodward, A. S. 1901 A, 451.

Zittel and Koken 1911 A, 139.

Zittel and Schlosser 1923 A, 146.

AUXIDES Jordan. Type *Thynnus propterygius* Agassiz.

Jordan, D. S. 1919 A, 10, 43.

Hubbs, C. L. 1924 A, 178.

Jordan and Gilbert 1920 A, 13.

Auxides bruntoni Jordan.

Jordan, D. S. 1921 A, 270, pl. ix, fig. a.

Miocene (Monterey); California.

Auxides dasson Jordan.

Jordan, D. S. 1921 A, 269, pl. iii, fig. b; pl. xxxvi, fig. a.

Miocene (Monterey); California.

Auxides sanctæ-monicæ Jordan.

Jordan, D. S. 1919 A, 5, 10, pl. v, fig. 2.

1921 A, 268.

Miocene? (Soledad); California.

SPHYRÆNODUS Agassiz. Type *S. priscus* Agassiz.

Hay, O. P. 1902 A, 399 (Dictyodus).

Bronn, H. G. 1848 B, 1171.

Fowler, H. W. 1911 A, 170 (Dictyodus).

Giebel, C. G. 1855 A, 104.

Leriche, M. 1905 A, 152.

1906 C, 422.

1910 D, 319, fig. 121.

Priem, F. 1908 B, 91.

- Stephan, P. 1900 A, 409.
 Toula, F. 1905 A, 64.
 Woodward, A. S. 1901 A, 473.

Sphyrænodus silovianus (Cope).

- Hay, O. P. 1902 A, 399 (Dietyodus).
 Eastman, C. R. 1904 H, 92.
 Fowler, H. W. 1911 A, 170, fig. 104 (Dietyodus).
 Hussakof, L. 1908 A, 71, fig. 37 (Dietyodus).
 Woodward, A. S. 1901 A, 368, 616.
 Miocene (Kirkwood); New Jersey.

Sphyrænodus speciosus (Leidy).

- Hay, O. P. 1902 A, 399 (Dietyodus).
 Eastman, C. R. 1904 H, 92, pl. xxxii, fig. 16 (Sphyræna).
 Fowler, H. W. 1911 A, 171, fig. 105 (Dietyodus).
 Woodward, A. S. 1901 A, 616 (Sphyræna).
 Miocene (Calvert); Maryland: (Kirkwood); New Jersey.

XIPHIODÆ, new form.

- Günther, A. C. 1880 A, 511 (Xiphiiformes).
 1881 A, 689 (Xiphiiformes).
 Jordan, D. S. 1923 A, 180 (Xiphiiformes).
 Regan, C. T. 1909 A, 72 (Xiphiiformes).

XIPHIIDÆ Richardson.

- Richardson, J. 1846 A, 276.
 Hay, O. P. 1902 A, 402.
 Agassiz, L. 1844 D, 142 ("xiphioides").
 Allis, E. P. 1909 A, 201, 202.
 Arltdt, T. 1907 D, 281.
 1923 A, 691 ("xiphiiden").
 Boulenger, G. A. 1904 A, 182.
 1904 D, 681.
 Bronn, H. G. 1849 A, 780, seq. (Xiphioidci).
 Carus, V. 1875 A, 533 (Xiphioidci).
 Carter, J. T. 1919 A, 321, pl. i (Xiphias).
 Dean, Gudger, Henn 1923 A, 652, 653.
 Gill, T. 1885 C, 203.
 Goodrich, E. S. 1909 A, 468.
 Goode, G. B. 1882 A, 415.
 Jordan, D. S. 1905 A, ii, 269.
 1907 B, 484.
 1923 A, 181.
 Jordan and Evermann 1926 A, 70.
 Jordan and Gilbert 1882 A, 419.
 Klein, E. F. 1884 A, 135, 139, 186 (Xiphidæ).
 1885 A, 138, 172, 231 (Xiphidæ).
 1886 A, 212, 246, 274, 281 (Xiphidæ).
 Leriche, M. 1910 D, 332.
 Leunis and Ludwig 1883 A, 678.
 Meck, A. 1916 A, 332.
 Priem, F. 1908 B, 99 ("xiphiidés").
 1912 A, 233 ("xiphiidés").
 Regan, C. T. 1903 C, 372.
 1909 A, 74.
 Schlosser, M. 1917 A, 142, 144, 148 ("xiphiiden").
 Shepherd, C. E. 1912 A, 457.
 Stromer, E. 1917 A, 22.
 Wagner, R. 1843 A (Xiphias).
 Wallace, A. A. R. 1876 A, ii, 430.
 Woodward, A. S. 1901 A, 490.
 Zittel and Koken 1911 A, 140.
 Zittel and Schlosser 1923 A, 148.

CYLINDRACANTHUS Leidy. Type *C. ornatus* Leidy.

- Leidy, J. 1856 E, 12.
 Hay, O. P. 1902 A, 331 (Cælorhynchus).
 Arltdt, T. 1923 A, 700 (Cælorhynchus).
 Bronn, H. G. 1849 A, 675 (Cælorhynchus).
 Fowler, H. W. 1911 A, 141.
 Hussakof, L. 1908 A, 44.
 Jordan, D. S. 1923 A, 107.
 Leidy, J. 1856 A, 422.
 Leriche, M. 1905 A, 159 (Glyptorhynchus).
 1906 B, 344 (Glyptorhynchus).
 1906 C, 254, pl. xiv (Glyptorhynchus).
 1909 A, 381.
 1910 A, 471.
 1910 D, 337.
 Newton, E. T. 1891 A, 101 (Cælorhynchus).
 Priem, F. 1903 A, 404 (Cælorhynchus).
 1908 B, 100, 112 (Cælorhynchus, Glyptorhynchus).
 1911 A, 44.
 1911 C, 25.
 1912 A, 221, fig. 3.
 Storms, R. 1891 A, 157 (Cælorhynchus).
 Stromer, E. 1903 A, 29 (Cælorhynchus).
 Williamson, W. C. 1851 A, 667, 697 (Cælorhynchus).
 Woodward, A. S. 1912 A (1911), 192, pl. xli (Cælorhynchus).
 1917 E, lxxviii (Cælorhynchus).
 Zittel and Schlosser 1923 A, 149, fig. 256 (Cælorhynchus).
Cylindracanthus acus (Cope).
 Hay, O. P. 1902 A, 331 (Cælorhynchus).
 Fowler, H. W. 1911 A, 142, fig. 88.
 Hussakof, L. 1908 A, 44, fig. 18.
 Eocene (Shark River); New Jersey.
Cylindracanthus ornatus Leidy.
 Hay, O. P. 1902 A, 331 (Cælorhynchus).
 Cope, E. D. 1869 M, vi, pl. x, fig. 7 (Cælorhynchus).
 Fowler, H. W. 1911 A, 141, fig. 87.
 Upper Cretaceous (Manasquan?); New Jersey, Virginia: Eocene (Shark River); New Jersey.
Cylindracanthus sp. indet.
 Tuomey, M. 1848 A, 156, 157, 166, 180 (Cælorhynchus).

XIPHIAS Linnaeus. Type *X gladius* Linnaeus.

- Allis, E. P. 1909 A, 202.
 Arldt, T. 1923 A, 691.
 Cuvier, G. 1815 A, 116.
 Dean, Gudger, Henn 1923 A, 707.
 Dietz, P. A. 1914 A, 108, 126, figs. 14, 15.
 Duméril, A. 1856 A, 225, 375.
 Eastman, C. R. 1901 B, 111.
 1904 H, 93.
 1917 A, 298.
 Giebel, C. G. 1855 A, 104.
 Jordan, D. S. 1905 A, ii, 269, 598.
 Jordan and Evermann 1926 A, 71.
 Jordan and Gilbert 1882 A, 419.
 Leriche, M. 1909 A, 381.

- Leriche, M. 1910 D, 333.
 Lütken, C. F. 1881 A, 5.
 Nopcea, F. 1926 A, 637, fig. 2.
 Owen, R. 1848 B, 46, 52, 57, pl. i, fig. 5.
 1866 A, 38, 107, 118, 179.
 Regan, C. T. 1924 B, 224, fig. 1.
 Shepherd, C. E. 1912 A, 458.
 Stannius, H. 1854 A, 4, 75.
 Woodward, A. S. 1901 A, 490.
 Zittel and Schlosser 1923 A, 148.

Xiphas sp. indet.

- Eastman, C. R. 1917 A, 298, pl. xvi, fig. 3.
 Phosphate beds; South Carolina.

ISTIOPHORIDÆ Jordan and Evermann.

- Jordan and Evermann 1896 A, 890.
 Hay, O. P. 1902 A, 402 (Istiophorinæ).
 Abel, O. 1912 F, 586, fig. 455 (Histiophorus).
 Arldt, T. 1923 A, 691 ("histiophoriden").
 Boulenger, G. A. 1904 A, 182 (Histiophoridæ).
 1904 D, 679 (Histiophoridæ).
 Dean, Gudger, Henn 1923 A, 551, 652 (Histiophoridæ).
 Fowler, H. W. 1911 A, 176.
 Gill, T. 1885 C, 203 (Histiophoridæ).

- Goodrich, E. S. 1909 A, 467 (Histiophoridæ).
 Jordan, D. S. 1905 A, ii, 268 (Histiophoridæ).
 1907 B, 483.
 1923 A, 181.
 Jordan and Evermann 1926 A, 27.
 Meek, A. 1916 A, 332 (Histiophoridæ).
 Regan, C. T. 1909 A, 74 (Histiophoridæ).
 Steinmann, G. 1922 A, 75 (Histiophoridæ).
 Zittel and Schlosser 1923 A, 148 (Histiophoridæ).

ISTIOPHORUS Lacépède. Type *Scomber gladius* Broussonet.

- Hay, O. P. 1902 A, 402.
 Abel, O. 1912 F, 430, fig. 308 (Histiophorus).
 Arldt, T. 1923 A, 691 (Histiophorus).
 Carter, J. T. 1919 A, 321, pl. ii (Histiophorus).
 Cuvier, G. 1815 A, 117 ("istiophore").
 Dean, Gudger, Henn 1923 A, 649, 652 (Histiophorus).
 Duméril, A. 1856 A, 380 ("histiophore").
 Fowler, H. W. 1911 A, 177.
 Giebel, C. G. 1855 A, 104 (Histiophorus).
 Jordan, D. S. 1905 A, ii, 269.
 1907 B, 484.
 Jordan and Evermann 1926 A, 35.
 Jordan and Gilbert 1882 A, 421 (Histiophorus).
 Klein, E. F. 1884 A, 135, 139, 186, 215 (Histiophorus).
 1885 A, 112, 138, 172, 198, 204, 231 (Histiophorus).
 1886 A, 207, 212, 246, 281, fig. 43 (Histiophorus).
 Köstlin, O. 1844 A.
 Leriche, M. 1906 C, 251 (Histiophorus).
 1909 A, 381 (Histiophorus).
 Lütken, C. F. 1881 A, 5 (Histiophorus).
 Owen, R. 1845 B, 121 (Histiophorus).
 1866 A, 114 (Histiophorus).
 Regan, C. T. 1909 A, 73, fig. (Histiophorus).
 Schlesinger, G. 1909 A (152), (Histiophorus).
 Woodward, A. S. 1901 A, 495 (Histiophorus).

Istiophorus antiquus (Leidy).

- Hay, O. P. 1902 A, 402.
 Berry, E. W. 1917 C, 462.
 Fowler, H. W. 1911 A, 177.
 Woodward, A. S. 1901 A, 495 (Histiophorus).
 Upper Cretaceous; New Jersey.

Istiophorus calvertensis Berry.

- Berry, E. W. 1927 C, 461, figs. 1, 2.
 Miocene (Calvert); Virginia.

Istiophorus homalorhamphus Cope.

- Hay, O. P. 1902 A, 402.
 Berry, E. W. 1917 C, 463.
 Fowler, H. W. 1911 A, 178, fig. 107.
 Kümmel, H. B. 1911 A, 180.
 Woodward, A. S. 1901 A, 497 (Histiophorus).
 Upper Cretaceous (Manasquan); New Jersey.

Istiophorus parvulus Marsh.

- Hay, O. P. 1902 A, 402.
 Berry, E. W. 1917 C, 463.
 Fowler, H. W. 1911 A, 180.
 Kümmel, H. B. 1911 A, 180.
 Woodward, A. S. 1901 A, 495 (Histiophorus).
 Cretaceous (Manasquan); New Jersey.

Istiophorus robustus (Leidy).

- Hay, O. P. 1902 A, 402.
 Berry, E. B. 1917 C, 462 (Xiphas).
 Eastman, C. R. 1901 B, 111 (Xiphas).
 Hay, O. P. 1923 A, 363.
 Hussakof, L. 1908 A, 78, fig. 40.
 Woodward, A. S. 1901 A, 497 (Histiophorus).
 Quaternary? or Miocene (Ashley River marls); South Carolina.

Istiophorus rotundus A. S. Woodward.

- Woodward, A. S. 1901 A, 495, fig. 18 (Histiophorus).
 Tertiary (Phosphate beds); South Carolina.

Istiophorus sp. indet.

Wyman, J. 1854 A, 260. Tertiary; Virginia.

EMBALORHYNCHUS Marsh. Type *E. kinnei* Marsh.

Hay, O. P. 1902 A, 403.

Fowler, H. W. 1911 A, 180.

Jordan, D. S. 1919 B, 359 (*E. kinneyi*).**Embalorhynchus kinnei** Marsh.

Hay, O. P. 1902 A, 403.

Fowler, H. W. 1911 A, 180.

Jordan, D. S. 1919 D, 359 (*E. kinneyi*).

Kümmel, H. B. 1911 A, 181.

Woodward, A. S. 1901 A, 497.

Upper Cretaceous (Manasquan); New Jersey.

Suborder PERCIFORMES Günther.

Günther, A. C. 1880 A, 374.

Arlt, T. 1923 A, 677 ("perciformen").

Boulenger, G. A. 1895 C, 1.

Cunningham, J. T. 1912 A, 247.

Eastman, C. R. 1911 C, 374.

Frost, G. A. 1927 A, 298.

Günther, A. C. 1881 A, 688.

Rauther, M. 1913 A, 1103.

Regan, C. T. 1909 B, 81, 85 (Percoidei).

1912 B, 850 (Percoidei).

1913 B, 112 (Percoidea).

Whitehouse, R. H. 1910 B, 611.

Woodward, A. S. 1901 A, 494.

Zittel and Schlosser 1923 A, 138.

PERCOIDÆ, new form.

Hay, O. P. 1902 A, 403 (Percoidea); 405 (Sciænoidea).

Bronn, H. G. 1849 A, 780, seq. (Percoidei, Sciænoidei).

Cockerell, T. D. A. 1910 E, 47 ("percoids").

1913 B, 150 (Percoidea).

Gill, T. 1872 C, 10 (Percoidea).

1885 C, 213 (Percoidea).

Gregory, W. K. 1907 D, 453 (Percoidea).

Hoernes, R. 1886 A, 537 (Sciænoidei).

Jordan, D. S. 1905 A, ii, 293, 585 (Percoidea).

1907 B, 508, 766 (Percoidea).

Lönnberg, E. 1902 A (Percoidea, Sciænoidea).

Regan, C. T. 1909 B, 81, 85 (Percoidei).

1910 C, 490 (Percoidea).

1912 B, 850 (Percoidei).

1913 B, 112 (Percoidea).

Stannius, H. 1854 A (Percoidei).

Starks, E. C. 1909 A, 574 (Percoidea).

The terms employed by the authors, as cited above, are by no means synonymous.

CENTRARCHIDÆ Gill.

Gill, T. 1872 C, 10.

Arlt, T. 1923 A, 678 ("centrarchiden").

Boulenger, G. A. 1895 C, 2.

1904 A, 179.

1904 D, 657.

Cockerell, T. D. A. 1913 B, 150.

1914 A, 191.

1919 A, 188.

Creaser, C. W. 1926 A, 4.

Dean, Gudger, Henn 1923 A, 673.

Gill, T. 1864 A, 92 ("centrarchoids").

Gill, T. 1885 C, 230.

Goodrich, E. S. 1909 A, 443.

Jordan, D. S. 1905 A, ii, 297, 562.

1907 B, 512.

1923 A, 189.

Jordan and Evermann 1896 A, 984.

Jordan and Gilbert 1882 A, 462.

Meek, A. 1916 A, 285.

Regan, C. T. 1913 B, 115.

1916 B, 547.

Storms, R. 1896 A, 212.

MICROPTERUS Lacepède. Type *M. dolomieu* Lacepède.

Lacepède, B. G. E. 1803, Hist. Nat. Poiss., iv, 325.

Cockerell, T. D. A. 1913 B, 144, 150, 151.

Dean, Gudger, Henn 1923 A, 689.

Frost, G. A. 1927 A, 301, pl. v.

Jordan, D. S. 1905 A, ii, 301, figs. 238, 239.

1907 B, 134, 516, figs. 88, 407, 408.

Jordan and Evermann 1896 A, 1010.

1917 A, 63.

Jordan and Gilbert 1882 A, 484.

Shufeldt, R. W. 1884 B, 532, 749, fig.

1901 E, 311, pl. xlv; text-figs. 1-8.

Micropterus sp. indet.

Matthew, W. D. 1924 C, 68 (This genus?).

Upper Miocene (Lower Snake Creek); Nebraska.

LEPOMIS Rafinesque. Type *Labrus auritus* Linnaeus.

Rafinesque, C. S. 1819, Jour. Physique, 1819, 420.

Barney and Anson 1923 A, 1-16, 7 figs.

Cockerell, T. D. A. 1913 B, 150.

Dean, Gudger, Henn 1923 A, 687.

Hubbs, C. L. 1922 A, 361, figs. 2, 3, 6.

Jordan, D. S. 1905, I, 4, fig. 2; II, 301, fig. 236.

Jordan and Evermann 1896 A, 999.

Jordan and Gilbert 1882 A, 472.

Lepomis sp. indet.

Baker, F. C. 1920 A, 462. Pleistocene (Wisconsin); Illinois.

Hay, O. P. 1923 A, 336. Pleistocene (Wisconsin); Illinois.

CENTRARCHITES Cockerell. Type *C. coloradensis* Cockerell.

Cockerell, T. D. A. 1919 A, 188.

Centrarchites coloradensis Cockerell.

Cockerell, T. D. A. 1919 A, 188, pl. xxxvi, fig. 12.

Eocene (Coalmont); Colorado.

PRISCACARIDÆ Jordan.

Jordan, D. S. 1923 A, 218.

Hay, O. P. 1902 A, 401 (Pomacentridæ).

Haseman, J. D. 1912 A, 97 (Cichlidæ).

PRISCACARA Cope. Type *P. serrata* Cope.

Hay, O. P. 1902 A, 401.

Arlt, T. 1923 A, 687.

Cockerell, T. D. A. 1908 C, 178.

1913 B, 166.

1915 A, 31.

1923 B, 2.

Eastman, C. R. 1917 A, 296.

Haseman, J. D. 1912 A, 97.

Ihering, H. 1909 A, 289.

Jordan, D. S. 1903 A, 137.

1905 A, ii, 381.

1907 B, 592.

1923 A, 218.

1927 C, 147.

Meek, A. 1916 A, 313.

Regan, C. T. 1916 B, 547.

Schlosser, M. 1917 A, 144.

Toula, F. 1905 A, 69.

Woodward, A. S. 1901 A, 554.

Zittel and Koken 1911 A, 133.

Zittel and Schlosser 1923 A, 142.

Priscacara clivosa Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Jordan, D. S. 1905 A, ii, 381.

1907 B, 592.

Merrill, G. P. 1907 A, 16.

Woodward, A. S. 1901 A, 554.

Eocene (Green River); Wyoming.

Priscacara cypha Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Merrill, G. P. 1907 A, 16.

Woodward, A. S. 1901 A, 555.

Eocene (Green River); Wyoming.

Priscacara dartonæ Eastman.

Eastman, C. R. 1917 A, 296, pl. xxiii.

Shufeldt, R. W. 1917 C, 50, fig.

Eocene (Green River); Wyoming.

Priscacara hypsacantha Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Hussakof, L. 1908 A, 90.

Eocene (Green River); Wyoming.

Priscacara oxyprion Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Haseman, J. D. 1912 A, 100.

Hussakof, L. 1908 A, 90.

Merrill, G. P. 1907 A, 16.

Tanner, V. M. 1925 A, 12.

Woodward, A. S. 1901 A, 555.

Eocene (Green River); Wyoming.

Priscacara pealei Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Merrill, G. P. 1907 A, 17.

Tanner, V. M. 1925 A, 12.

Woodward, A. S. 1901 A, 555.

Eocene (Green River); Wyoming, Utah.

Priscacara serrata Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Haseman, J. D. 1912 A, 97.

Hussakof, L. 1908 A, 92.

Jordan, D. S. 1927 C, 147.

Merrill, G. P. 1907 A, 17.

Toula, F. 1905 A, 69, fig. 3.

Woodward, A. S. 1901 A, 554.

Eocene (Green River); Wyoming.

Priscacara testudinaria Cope.

Hay, O. P. 1902 A, 402.

Eastman, C. R. 1917 A, 296.

Hussakof, L. 1908 A, 92.

Eocene (Manti); Utah.

Priscacara sp. indet.

Cope, E. D. 1884 O, 93. Eocene (Washakie); Wyoming.

COCKERELLITES Jordan. Type *Priscacara liops* Cope.

Jordan, D. S. 1923 A, 218.

1927 C, 147.

Cockerellites liops (Cope).

Hay, O. P. 1902 A, 401 (Priscacara).

Cockerell, T. D. A. 1908 C, 178 (Priscacara).

Eastman, C. R. 1917 A, 296 (Priscacara).

Hussakof, L. 1908 A, 70 (Priscacara).

Jordan, D. S. 1927 C, 147 (P. liops Cope).

Merrill, G. P. 1907 A, 16 (Priscacara).

Woodward, A. S. 1901 A, 555 (Priscacara).

Eocene (Green River); Wyoming.

CHROMIDIDÆ Bonaparte.

Bonaparte, C. L. 1840 A, 296.

Unless otherwise indicated the authors, as cited, use for this family the name Cichlidæ. Chromididæ appears to be older. Citations are made to the literature of the Pomacentridæ.

Hay, O. P. 1902 A, 401 (Pomacentridæ).

Arlt, T. 1907 D, 675 (Pomacentridæ).

Boulenger, G. A. 1904 A, 180.

1904 D, 670 (Cichlidæ); 672 (Pomacentridæ).

1917 B, 330.

1919 A, 42 ("cichlides" or "chromides").

Cockerell, T. D. A. 1913 B, 165 (Pomacentridæ, Cichlidæ).

1915 A, 31.

Cope, E. D. 1871 T, 459 (Pomacentridæ, Chromididæ).

1872 C, 343 (Pomacentridæ, Chromididæ).

Eastman, C. R. 1912 B, 372.

1917 A, 296.

Fitzinger, L. J. 1873 A, 31 (Pomacentri).

Gill, T. 1872 B, 7.

1885 B, 35 (Pomacentridæ); 235 (Cichlidæ).

Goode and Bean 1895 A, 243 (Pomacentridæ).

Goodrich, E. S. 1909 A, 446 (Pomacentridæ, Cichlidæ).

Günther, A. 1862 A, 1 (Pomacentridæ); 265 (Chromides).

Haseman, J. D. 1912 A, 97.

Jordan, D. S. 1903 A, 137 ("pomacentrids").

1905 A, ii, 381, 557 (Pomacentridæ); 380, 563 (Cichlidæ).

1907 B, 591 (Pomacentridæ, Cichlidæ).

1927 C, 147 (Cichlidæ).

Jordan and Evermann 1896 A, 1512.

Jordan and Gilbert 1882 A, 607.

Kner, R. 1861 B, 143 (Pomacentrini).

Leunis and Ludwig 1883 A, 704 (Pomacentridæ).

Loomis, F. B. 1921 A, 194.

Meek, A. 1916 A, 312.

Regan, C. T. 1913 B, 112 (Pomacentridæ); 112, 130 (Cichlidæ).

1916 B, 546.

1922 B, 249.

Richardson, J. 1854 A, 265 (Pomacentridæ).

1856 A, 265 (Chromididæ).

Shepherd, C. E. 1913 A, 388.

Stannius, H. 1854 A, 5, seq. (Chromides).

Wallace, A. R. 1876 A, ii, 437.

Woodward, A. S. 1901 A, 554 (Chromidæ); 555 (Pomacentridæ).

Zittel and Koken 1911 A, 133 (Pomacentridæ).

Zittel and Woodward 1902 A, 103 (Pomacentridæ).

KINDLEIA Jordan. Type *K. fragosa* Jordan.

Jordan, D. S. 1927 C, 145.

Kindleia fragosa Jordan.

Jordan, D. S. 1927 C, 145, figs. 1-14.

Russell, L. S. 1928 B, 264.

Upper Cretaceous (Paleocene, Paskapoo); Alberta.

PERCIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 89, 100.

Hay, O. P. 1902 A, 404.

Agassiz, L. 1840 C, 110, pl. iv, fig. 8 (Perca).

1844 D, 142 ("percoides").

Arlt, T. 1907 D, 672.

1912 A, 760.

1923 A, 680 ("perciden").

Bassoli, G. G. 1906 A, 51, pl. ii (otoliths).

Baudelot, E. 1873 A, 98, 130 (Perca).

Bonaparte, C. L. 1833 B, 1197.

1838 B, 132.

Boulenger, G. A. 1895 C, 1 (Perciformes).

1904 A, 179.

1904 D, 658.

Brauer, A. 1914 A, 284.

Bridge, T. W. 1896 A, 564.

Carlet, G. 1878 A, 8 ("perche").

Carus, V. 1875 A, 518 (Percoides).

Cockerell, T. D. A. 1913 B, 143, 153.

Cunningham, J. T. 1912 A, 266.

Cuvier, G. 1805 A ("perches").

Dean, Gudger, Henn 1923 A, 694.

Dietz, P. A. 1914 A, 112.

Dormitzer, M. 1852 A, 62 ("perciden").

Duméril, A. 1856 A, 270 ("percoides").

Eastman, C. R. 1917 A, 294.

Fitzinger, L. J. 1873 A, 29 (Perca).

Frost, G. A. 1927 A, 298 (Perca).

Fryd, C. 1901 A, 19.

Giebel, C. G. 1855 A, 160 (Percoides).

Gill, T. 1875 B, 252.

1885 C, 227.

Goetsch, W. 1920 A, 439, 444 (Perca).

Goodrich, E. S. 1909 A, 441.

Hase, A. 1907 A.

1911 B, 339 (Perca).

Hasse, C. 1872 A, figs. (Perca).

Hasse and Schwarck 1870 A, 30 (Perca).

Heckel, J. 1850 B, 146 ("perciden").

Hoernes, R. 1886 A, 538 (Percoides).

Hubbs, C. L. 1926 A, 58 ("percids").

Huxley, T. H. 1859 H, 37.

Jordan, D. S. 1905 A, ii, 304, 585.

1907 B, 519.

1923 A, 186.

Jordan and Gilbert 1882 A, 486.

Klaatsch, H. 1890 A, 193, 195 (Perca).

Klein, E. F. 1879 A, 69, 70, 81, 115.

1884 A, 135, 139, 181, 204.

1885 A, 133, 199.

1886 A, 205, 239, 275.

Kner, R. 1862 A, 65 (Percoides).

Köstlin, O. 1844 A ("percoiden").

Kolzoff, N. K. 1896 A, 518, fig. 7 (Perca).

Leunis and Ludwig 1883 A, 660.

M'Donnell, R. 1864 A, 171.

Meckel, J. F. 1825 A (Perca).

Meek, A. 1916 A, 287.

Owen, R. 1866 A, 11, 378.

Porta, A. 1905 A, 240.

- Priem, F. 1906 B, 269, figs. 11-25.
 1914 B, 246, 256, figs. 3-5, 23-31 ("percidarum").
- Regan, C. T. 1913 B, 116.
- Richardson, J. 1836 A, 30 (Percoideæ).
- Rosén, N. 1915 A, 6, pl. i (Perca).
- Sachs, M. M. 1912 A, 726.
- Sagemehl, M. 1884 A, 102 (Perca).
- Salbey, R. 1868 A, 748, pl. xviii.
- Scharff, R. F. 1909 B, 18.
 1911 A, 198.
- Schlosser, M. 1917 A, 140, 142 ("perciden").
- Schubert, R. J. 1906 A, 625.
- Siebenrock, F. 1901 A, 106.
- Stannius, H. 1849 A, 539 (Perca).
 1854 A, 4, seq. (Percoidei).
- Starks, E. C. 1916 A, 29 ("percoid fishes").
- Stephan, P. 1900 A, 301 (Perca).
- Storms, R. 1896 A, 212.
- Supino, F. 1904 A, 628.
- Tomes, O. S. 1876 A, 262, pl. xxxi ("perch").
- Vaillant, L. 1874 A, 406 ("percoides").
- Wagner, R. 1843 A (Perca).
- Wallace, A. R. 1876 A, ii, 425.
- Weber, E. H. 1821 A, 1080 (Perca).
- Weiler, W. 1922 A, 76 (otoliths).
- Williamson, W. C. 1851 A, 651, 690, pl. xxviii, figs. 10-12 ("perch").
- Woodward, A. S. 1901 A, 498.
- Zittel and Koken 1911 A, 132.
- Zittel and Schlosser 1923 A, 141, figs. 16, 26.
- Zittel and Woodward 1902 A, 104.

MIOPLOSUS Cope. Type *M. labracoides* Cope.

- Hay, O. P. 1902 A, 404.
- Cockerell, T. D. A. 1908 C, 177.
- Eastman, C. R. 1917 A, 294.
- Hussakof, L. 1916 C, 348.
- Seeley, H. G. 1886 A, 412.
- Woodward, A. S. 1901 A, 517.

Mioplosus abbreviatus Cope.

- Hay, O. P. 1902 A, 404.
- Cockerell, T. D. A. 1908 C, 177.
- Hussakof, L. 1908 A, 81, fig. 42.
- Woodward, A. S. 1901 A, 518.
 Eocene (Green River); Wyoming.

Mioplosus beani Cope.

- Hay, O. P. 1902 A, 404.
- Cockerell, T. D. A. 1908 C, 177.
- Merrill, G. P. 1907 A, 13.
- Woodward, A. S. 1901 A, 518.
 Lower Eocene (Green River); Wyoming.

Mioplosus labracoides Cope.

- Hay, O. P. 1902 A, 405.

- Cockerell, T. D. A. 1908 C, 177.
- Eastman, C. R. 1917 A, 294, pl. xxi.
- Hussakof, L. 1908 A, 81.
- Jordan, D. S. 1905 A, ii, 315.
- Meek, A. 1916 A, 297.
- Tanner, V. M. 1925 A, 6.
- Toula, F. 1905 A, 70, fig. 4.
- Woodward, A. S. 1901 A, 517.
 Lower Eocene (Green River); Wyoming.

Mioplosus longus Cope.

- Hay, O. P. 1902 A, 405.
- Cockerell, T. D. A. 1908 C, 177.
- Eastman, C. R. 1917 A, 295.
- Merrill, G. P. 1907 A, 13.
- Woodward, A. S. 1901 A, 518.
 Lower Eocene (Green River); Wyoming.

Mioplosus sauvageanus Cope.

- Hay, O. P. 1902 A, 405.
- Cockerell, T. D. A. 1908 C, 177.
- Woodward, A. S. 1901 A, 518.
 Lower Eocene (Green River); Wyoming.

EOPERCA Jordan. Type *Mioplosus multidentatus* Cope.

- Jordan, D. S. 1919 A, 12.

Eoperca multidentatus (Cope).

- Hay, O. P. 1902 A, 405 (Mioplosus).

- Eastman, C. R. 1917 A, 295 (Mioplosus).
- Jordan, D. S. 1919 A, 12.
- Woodward, A. S. 1901 A, 518 (Mioplosus).
 Tertiary (Oligocene?); Wyoming.

PLIOPLARCHUS Cope. Type *P. whitei* Cope.

- Hay, O. P. 1902 A, 405.
- Cockerell, T. D. A. 1914 A, 191.
- Dall and Harris 1892 A, 281.
- Eastman, C. R. 1917 A, 295.
- Jordan, D. S. 1907 B, 519.
- Plioplarchus septemspinus Cope.**
- Hay, O. P. 1902 A, 405.
- Cockerell, T. D. A. 1914 A, 191.
- Dall and Harris 1892 A, 281.
- Eastman, C. R. 1917 A, 295, pl. xxii.
- Merriam, J. C. 1901 A, 308 ("Plioplarchus").
- Merriam and Sinclair 1907 A, 196.
- Merrill, G. P. 1907 A, 16.
- Woodward, A. S. 1901 A, 520.
 Miocene (Mascall?); Oregon.

Plioplarchus sexspinus Cope.

- Hay, O. P. 1902 A, 405.
- Eastman, C. R. 1917 A, 295, pl. xv, fig. 1.
- Merrill, G. P. 1907 A, 16.
- Woodward, A. S. 1901 A, 520.
 Tertiary; North Dakota.

Plioplarchus whitei Cope.

- Hay, O. P. 1902 A, 405.
- Dall and Harris 1892 A, 281.
- Eastman, C. R. 1917 A, 295.
- Jordan, D. S. 1910 C, 422 (*P. whitii*).
- Merrill, G. P. 1907 A, 16.
- Woodward, A. S. 1901 A, 520.
 Tertiary; North Dakota.

OLIGOPLARCHUS Cope. Type *O. squamipinnis* Cope.

Hay, O. P. 1902 A, 405.

Oligoplarchus squamipinnis Cope.

Hay, O. P. 1902 A, 405.

Cockerell, T. D. A. 1914 A, 191.

Woodward, A. S. 1901 A, 519.

Oligocene?; South Dakota.

STOMIATIDÆ Günther.

Günther, A. C. 1864 A, 424.

Boulenger, G. A. 1904 D, 570.

Jordan, D. S. 1885 A, 140.

1905 A, ii, 128.

Jordan, D. S. 1923 A, 126.

Jordan and Evermann 1896 A, 587.

Jordan and Gilbert 1882 A, 285.

Regan, C. T. 1923 A, 614.

EOSTOMIAS Jordan and Gilbert. Type *E. eximius* Jordan and Gilbert.*Jordan and Gilbert, J. Z.*, in Jordan, D. S. 1925 B, 13.**Eostomias eximius**.*Jordan and Gilbert, J. Z.*, in Jordan, D. S. 1925 B, 13, pl. iii.

Miocene (Monterey); California.

POMATOMIDÆ Gill.

Gill, T. 1865, Canad. Natural., Geol. (n. s.), 246, 249.

Boulenger, G. A. 1904 D.

Dean, Gudger, Henn 1923 A, 649 (Pomatominae).

Gill, T. 1883 F, 557.

1885 C, 182.

Jordan, D. S. 1905 A, ii, 278.

1907 B, 493 (Cheilodipteridæ).

1923 A, 186.

Jordan and Evermann 1898 A, 945.

Jordan and Gilbert 1882 A, 447.

Regan, C. T. 1913 B, 117.

LOPHAR Jordan and Gilbert. Type *L. miocænus* Jordan and Gilbert.*Jordan and Gilbert* 1919 A, 44, 47.

Jordan, D. S. 1921 A, 277.

1925 B, 26.

Lophar miocænus Jordan and Gilbert.*Jordan and Gilbert* 1919 A, 44, pl. iii, fig. 2, pls. xix, xx.

Jordan, D. S. 1921 A, 277.

Miocene (Monterey); California.

ELEPHENORIDÆ Jordan.

Jordan, D. S. 1919, Ann. Carnegie Mus., xii, 330.

Jordan, D. S. 1925 B, 45.

ABANTIS Jordan and Gilbert. Type *A. velifer* Jordan and Gilbert.*Jordan and Gilbert, J. Z.*, in Jordan, D. S. 1925 B, 45.**Abantis velifer** Jordan and Gilbert.*Jordan and Gilbert, J. Z.*, in Jordan, D. S. 1925 45, pls. xx, xxi.

Upper Miocene; California.

SERRANIDÆ Richardson.

Richardson, J. 1846 A, 229.

Agassiz, L. 1840 C, 103, pl. v, fig. 22 (Serranus).

Arlt, T. 1923 A, 681 ("serraniden").

Boulenger, G. A. 1895 C, 113.

1901 A, 270.

1901 D, 379.

1904 D, 659, 755.

Carus, V. 1875 A, 519 (Serranina).

Cockerell, T. D. A. 1913 B, 143, 158.

Dean, Gudger, Henn 1923 A, 402, 648.

Fitzinger, L. J. 1873 A, 30 (Serrani).

Geoffroy St. Hilaire, E. F. 1824 D, 422, pl. xxi (Serranus).

Gill, T. 1872 C, 11.

1885 B, 35.

1885 C, 223.

Goodrich, E. S. 1909 A, 430.

Günther, A. C. 1859 A, 51, 81 (Serranina).

Hubbs, C. L. 1919 B, 71.

Jordan, D. S. 1905 A, ii, 592.

1907 B, 534.

1923 A, 193.

Jordan and Evermann 1896 A, 1126.

Jordan and Gilbert 1882 A, 526.

Kesteven, H. L. 1922 A, 308.

Klein, E. F. 1879 A, 81 (Serranina).

1885 A, 174 (Serranus).

Meek, A. 1916 A, 291.

Priem, F. 1906 B, 267 (Serranus).

1908 B, 112 ("serranidés").

1914 B, 248, 260, figs. 7, 32-40 ("otoliths").

Regan, C. T. 1913 B, 113.

Schlosser, M. 1917 A, 142 ("serraniden").

Schmalhausen, J. J. 1916 C, 214, figs. 1-5 (Serranus).

Shepherd, C. E. 1916 A, 204.

Starks, E. C. 1909 A, 573.
 Stephan, P. 1900 A, 321 (Serranus).
 Storms, R. 1896 A, 211.

Vaillant, L. 1874 A, 407 (Serranus).
 Zittel and Schlosser 1923 A, 139.

EMMACHÆRE Jordan and Gilbert. Type *E. rhachites* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 59.
Jordan, D. S. 1927 B, 93 (Referred to the Epi-
 nephalidæ).
Jordan and Gilbert 1920 A, 26.

Emmachære rhachites Jordan and Gilbert.

Jordan and Gilbert 1919 A, 59, pl. xxviii, fig. 2.
 1920 A, 26, pl. xv.
Jordan, D. S. 1921 A, 277.
 Mioene (Monterey); California.

Emmachære rhomalea Jordan.

Jordan, D. S. 1921 A, 278, pl. xliii.
 1922 D, 273, fig. 5.
 1925 B, 30.
 1927 B, 93.
Jordan and Gilbert 1920 A, 26 (in part), pl.
 xvi (*E. rhachites*; not *E. rhachites* Jordan and
 Gilbert, 1919 A, pl. xxviii).
 Miocene (Monterey); California.

APOGONIDÆ Jordan and Gilbert.

Jordan and Gilbert 1882 A, 563.
Dean, Gudger, Henn 1923 A, 375, 579, 601 (Apo-
 gon).
Frost, G. A. 1927 A, 302, pl. v.
Günther, A. C. 1859 A, 222 (Apogonina).

Jordan, D. S. 1905 A, ii, 316.
 1907 B, 531.
 1923 A, 188.
Jordan and Evermann 1896 A, 1105 (Cheilodip-
 terinæ).
Shepherd, C. E. 1916 A, 183, 204 (Apogon).

ERITIMA Jordan and Gilbert. Type *E. evides* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 40.
Eritima evides Jordan and Gilbert.
Jordan and Gilbert 1919 A, 40, pl. xxviii, fig. 1.

Jordan, D. S. 1921 A, 277, pl. xlii.
 Mioene (Monterey?); California.

CARANGIDÆ Günther.

Günther, A. C. 1860 A, 417.
Hay, O. P. 1902 A, 403.
Abel, O. 1912 F, 127 ("earangiden").
Allis, E. P. 1909 A, 201.
Ardt, T. 1907 D, 643.
 1923 A, 689 ("earangiden").
Boulenger, G. A. 1902 B, 299.
 1904 A, 181.
 1904 D, 677.
 1917 B, 329.
Bridge, T. W. 1896 A, 569.
Carus, V. 1875 A, 532 (Carangoidei).
Cockerell, T. D. A. 1913 B, 149.
Dean, Gudger, Henn 1923 A, 590, 651, 652.
Dietz, P. A. 1914 A, 124.
Fitzinger, L. J. 1873 A, 33 (Caranges).
Frost, G. A. 1927 A, 302 pl. v.
Fryd, C. 1901 A, 21.
Gill, T. 1883 G, 487, 492.
 1885 B, 35.
 1885 C, 187.
Goodrich, E. S. 1909 A, 464.
Günther, A. C. 1881 A, 689.
Jordan, D. S. 1905 A, ii, 272, 561.
 1907 B, 487.
 1923 A, 184.

Jordan, D. S. 1925 B, 26.
Jordan and Gilbert 1882 A, 430.
Klein, E. F. 1884 A, 135, 139, 181, 213.
 1885 A, 109, 138, 163, 199, 200, 203, 231
 (Carangidæ, Carangina).
 1886 A, 211, 244, 281.
Kner, R. 1861 A, 776 ("carangiden").
Leriehe, M. 1910 D, 305.
Leunis and Ludwig 1883 A, 680.
Meek, A. 1916 A, 315.
Regan, C. T. 1909 A, 67, 68.
 1912 B, 850.
 1913 B, 118.
Schlosser, M. 1917 A, 139, 140, 142 ("caran-
 giden").
Shepherd, C. E. 1911 A, 138.
Siebenroek, F. 1901 A, 107.
Starks, E. C. 1909 A, 572.
 1911 B, 27.
 1916 A, 28.
Toula, F. 1905 A, 75.
Wallace, A. R. 1876 A, ii, 429.
Woodward, A. S. 1901 A, 418, 427.
Zittel and Koken 1911 A, 137.
Zittel and Schlosser 1923 A, 145.
Zittel and Woodward 1902 A, 107.

CARANX Lacepède. Type *Scomber carangus* Bloch.

Lacepède, B. G. 1802, Hist. Nat. Poissons, iii,
 57.
Cockerell, T. D. A. 1913 B, 149, pl. xxxvi, fig.
 27.
Dean, Gudger, Henn 1923 A, 673.
Dietz, P. A. 1914 A, 125, fig. 13.

Edgeworth, F. H. 1926 A, 186.
Fryd, C. 1901 A, 21.
Goetsch, W. 1920 A, 494, pl. xxii.
Hay, O. P. 1923 A, 383.
Jordan and Evermann 1896 A, 915.
 1917 A, 60.

Jordan and Gilbert 1882 A, 433, 970.
 Klein, E. F. 1879 A, 95.
 1886 A, 244.
 Lütken, C. F. 1881 A, 114.
 Meek, A. 1916 A, 315.
 Owen, R. 1845 B, 121.
 Shepherd, C. E. 1910 B, 292, pl. i, fig. 7.
 1911 A, 140.
 Siebenrock, F. 1901 A, 107.
 Stannius, H. 1854 A.
 Starks, E. C. 1911 B, 32.
 Woodward, A. S. 1901 A, 441.

Caranx hippos Linnæus.

Hay, O. P. 1917 E, 43.
 1923 A, 382.
 Jordan and Evermann 1896 A, 920, pl. clxi, fig. 387.
 Siebenrock, F. 1901 A, 107.
 Pleistocene; Florida.

Caranx sp. indet.

Hay, O. P. 1923 A, 382. Pleistocene; Florida.

HEMICARANX Bleeker. Type *H. marginatus*.

Bleeker, P. 1862, Verh. Akad. Amsterdam, xiv, 134.
 Jordan and Evermann 1896 A, 912.

Hemicaranx archæus Jordan.

Jordan, D. S. 1927 B, 92.
 Upper Miocene (Lompoc); California.

SERIOLIDÆ Jordan.

Jordan, D. S. 1925 B, 26

TUNITA Jordan and Gilbert. Type *T. octavia* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 42.
 Jordan, D. S. 1925 B, 29.
 Jordan and Gilbert 1920 A, 13.

Tunita octavia Jordan and Gilbert.

Jordan and Gilbert 1919 A, 42, pl. xii, fig. 2.
 Jordan, D. S. 1921 A, 271, pl. xxxix.

Jordan, D. S. 1925 B, 29.
 Miocene (Monterey); California.

Tunita sp. indet.

Jordan, D. S. 1921 A, 271. Miocene? California.
 1925 B, 45. Miocene (Puente); California.

SERIOLA Cuvier. Type *Caranx dumerili* Risso.

Cuvier, G. 1829, Règne Anim., ed. 2, II, 218.
 Gill, T. 1885 C, 190.
 Goodrich, E. S. 1909 A, 464.
 Günther, A. C. 1860 A, 462.
 Jordan, D. S. 1905 A, ii, 272.
 1907 B, 487.
 1921 A, 276.
 1925 B, 26.
 Jordan and Evermann 1896 A, 901.
 Jordan and Gilbert 1882 A, 444.

Woodward, A. S. 1901 A, 444.
 Zittel, K. A. 1890 A, 305.

Seriola sanctæ-barbaræ Jordan.

Jordan, D. S. 1921 A, 275, pls. vii, xl.
 Miocene (Monterey); California.

Seriola sanctæ-inezia Jordan.

Jordan, D. S. 1925 B, 26, pl. xiii.
 Miocene (Monterey); California.

ALICIOLA Jordan. Type *A. starksi* Jordan.

Jordan, D. S. 1925 B, 27.

Aliciola starksi Jordan.

Jordan, D. S. 1925 B, 27, pl. xiv.
 Miocene (Monterey); California.

LOMPOCHITES Jordan. Type *Lompochites hopkinsi* Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 30, 45.
 1925 B, 26, 29.

Lompochites hopkinsi Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 30.

Jordan, D. S. 1921 A, 276, pl. xli, fig. b.
 1922 D, 272, fig. 4.
 1925 B, 29.
 1927 B, 92.
 Miocene (Monterey); California.

CORONADUS Jordan. Type *C. agilis* Jordan.

Jordan, D. S. 1925 B, 28.

Coronadus agilis Jordan.

Jordan, D. S. 1925 B, 28, pl. xiv.
 1927 B, 92.
 Miocene (Monterey); California.

Coronadus stocktoni Jordan.

Jordan, D. S. 1927 B, 92.
 Upper Miocene (Lompoc); California.

IRIFERA Jordan. Type *I. ringens* Jordan.

Jordan, D. S. 1927 B, 7.

Irifera ringens Jordan.

Jordan, D. S. 1927 B, 91.

Upper Miocene (Lompoc); California.

LUTIANIDÆ Gill.

Gill, T. 1884 G, 352 (Lutjaninæ, Lutjanidæ).

Cockerell, T. D. A. 1913 B, 160.

Dean, Gudger, Henn 1923 A, 590, 649 (Lutjaninæ).

Gill, T. 1885 C, 222 (Lutjanidæ).

1893 A, 134 (Lutjanidæ).

Gill, T. 1893 B, 116 (Lutjanidæ).

Jordan, D. S. 1923 A, 195.

Jordan and Evermann 1898 A, 1241.

Jordan and Gilbert 1882 A, 546 (Lutjaninæ).

Regan, C. T. 1913 B, 120.

NEOMÆNIS Girard. Type *Lobotes emarginatus* Baird and Girard = *Labrus griseus* Linn.

Girard, C. F. 1859, Proc. Acad. Nat. Sci. Phila., 1858 (1859), 167.

Girard, C. F. 1859, Mex. Bound. Surv., Zool., Fishes, 18.

Jordan, D. S. 1921 A, 278.

Jordan and Evermann 1898 A, 1247.

Neomænis hagari (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 48, pl. xiv, figs. 1, 4 (Lutianus).

Jordan, D. S. 1921 A, 278, pl. xlv.

Miocene (Monterey); California.

SPARIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 91, 105.

Hay, O. P. 1902 A, 405.

Agassiz, L. 1844 D, 142 ("sparoides").

Allis, E. P. 1909 A, 201, 202.

Arlt, T. 1907 D, 682.

1923 A, 683 ("spariden").

Bassoli, G. G. 1906 A, 52, pl. ii (otoliths).

Bonaparte, C. L. 1833 B, 1198.

1838 B, 132.

Boulenger, G. A. 1904 A, 180.

1917 B, 329.

Bridge, T. W. 1896 A, 566.

Bronn, H. G. 1849 A, 780, seq. (Sparoidei).

Carus, V. 1875 A, 525 (Sparoidei).

Cockerell, T. D. A. 1913 B, 160.

Cuvier, G. 1805 A ("spares").

Dean, Gudger, Henn 1923 A, 418, 503, 650.

Dietz, P. A. 1914 A, 112.

Fitzinger, L. J. 1873 A, 31 (Spari).

Fowler, H. W. 1911 A, 181.

Fulton, T. W. 1906 A, 54.

Giebel, C. G. 1855 A, 101 (Sparoidei).

Gill, T. 1885 C, 218.

Goetsch, W. 1920 A, 439 (Sparus).

Goodrich, E. S. 1909 A, 428.

Günther, A. C. 1881 A, 688.

Hasse, C. 1873 A, 599 ("sparoiden").

Heckel, J. 1850 B, 146 ("spariden").

Hoernes, R. 1886 A, 536 (Sparoidei).

Huxley, T. H. 1859 H, 37.

Jordan, D. S. 1905 A, ii, 342, 593.

1907 B, 556.

1923 A, 197.

Klein, E. F. 1879 A, 69, 120 ("sparoiden").

Klein, E. F. 1884 A, 135, 206.

1885 A, 109, 133, 199, 225.

1886 A, 207, 239, 276.

Köstlin, O. 1844 A ("sparoiden").

Kner, R. 1862 A, 49 (Sparoidei).

Leunis and Ludwig 1883 A, 670.

M'Donnell, R. 1864 A, 168.

Meckel, J. F. 1825 A ("sparen").

Meek, A. 1916 A, 301.

Mummery, J. H. 1917 A, 251.

Owen, R. 1866 A.

Priem, F. 1906 B, 273, figs. 36-37.

1908 B, 82, 100 ("sparidés").

1914 B, 264, figs. 45-52 ("otolithus").

Regan, C. T. 1913 B, 124.

Schlosser, M. 1917 A, 142 ("spariden").

Schubert, R. J. 1906 A, 630.

Shepherd, C. E. 1910 A, 419.

1911 A, 450.

1916 A, 178, 204.

Siebenrock, F. 1901 A, 106.

Stannius, H. 1854 A, 4, seq. (Sparoidei).

Stephan, P. 1898 A, 359 ("sparides").

1900 A, 300, 314 ("sparidés").

Terra, P. 1911 A, 216.

Tomes, C. S. 1877 A, 45.

Wagner, R. 1843 A (Sparus).

Wallace, A. R. 1876 A, ii, 426.

Weiler, W. 1922 A, 76 (otoliths).

Whitehouse, R. H. 1910 B, 612, pl. xlix, fig. 20.

Woodward, A. S. 1901 A, 524.

Zittel and Koken 1911 A, 135.

Zittel and Schlosser 1923 A, 139.

Zittel and Woodward 1902 A, 105.

CROMMYODUS Cope. Type *Phacodus irregularis* Cope.

Hay, O. P. 1902 A, 405.

Fowler, H. W. 1911 A, 182.

Jordan, D. S. 1919 B, 356.

Crommyodus irregularis Cope.

Hay, O. P. 1902 A, 405.

Fowler, H. W. 1911 A, 182.

Kümmel, H. B. 1911 A, 183.

Woodward, A. S. 1901 A, 553.

Miocene (Kirkwood); New Jersey.

ATKINSONELLA Jordan. Type *A. strigilis* Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 41.

To what family this genus belongs is somewhat uncertain.

Atkinsonella strigilis Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert 1920 A, 41.

1921 A, 281, pl. v, fig. b; pl. xli, fig. a.
Miocene (Monterey); California.

RHYTHMIAS Jordan and Gilbert. Type *Rhythmius starrii* Jordan and Gilbert.

Jordan and Gilbert 1920 A, 27.

Jordan, D. S. 1921 A, 279.

Rhythmius starrii Jordan and Gilbert.

Jordan and Gilbert 1920 A, 28, pl. xvii.

Jordan, D. S. 1921 A, 279, pl. xlv.

1922 D, 273, fig. 6.

1925 B, 31.

1927 B, 93.

Miocene (Monterey); California.

ERQUIUS Jordan. Type *E. plectrodes* Jordan.

Jordan, D. S. 1924 B, 44.

Eriquius plectrodes Jordan.

Jordan, D. S. 1924 B, 44, pl. H.

Jordan, D. S. 1925 B, 30, pl. xv.

Miocene (Monterey); California.

PLECTRITES Jordan. Type *Plectrites classeni* Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 29, 45.

1921 A, 280.

Plectrites classeni Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 13, pl. xviii.

1921 A, 280, pl. xlv.

1925 B, 31, pl. xvi.

Miocene (Monterey); California.

SCIÆNIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 90, 105.

Hay, O. P. 1902 A, 405.

Agassiz, L. 1844 D, 142 ("scienoïdes").

Allis, E. P. 1909 A, 27 (Sciæna).

Arlt, T. 1907 D, 680.

1912 A, 760.

1923 A, 683.

Bassoli, G. G. 1906 A, 47, pl. ii (otoliths).

Bonaparte, C. L. 1833 B, 1198.

Boulenger, G. A. 1901 D, 384.

1904 D, 663, 755.

Bronn, H. G. 1848 B, 1123 (Sciænoidei).

Carus, V. 1875 A, 530 (Sciænoidei).

Cockerell, T. D. A. 1913 B, 143, 162.

Cuvier, G. 1805 A ("sciènes").

Dean, Gudger, Henn 1923 A, 364, 402, 595.

Dietz, P. A. 1914 A, 112.

Duméril, A. 1856 A, 288 ("sciënoides").

Fitzinger, L. J. 1873 A, 31 (Sciænæ).

Giebel, C. G. 1855 A, 101 (Sciænoidei).

Gill, T. 1885 C, 213.

Goodrich, E. S. 1909 A, 431.

Günther, A. 1880 A, 426 (Sciæniiformes, Sciæni-dæ).

1881 A, 689.

Heckel, J. 1850 B, 146 ("sciæniden").

Huxley, T. H. 1859 H, 37.

Jordan, D. S. 1905 A, ii, 353, 591.

1907 B, 567.

1923 A, 201.

Jordan and Gilbert 1882 A, 566.

Klein, E. F. 1879 A, 69 ("sciænoiden").

1884 A, 135, 184, 211.

1885 A, 109, 111, 135, 199.

1886 A, 210, 242, 278.

Kner, R. 1862 A, 52 (Sciænoidei).

Köstlin, O. 1844 A ("sciænoiden").

Leunis and Ludwig 1883 A, 676.

Meckel, J. F. 1825 A (Sciæna).

Meek, A. 1916 A, 298.

Owen, R. 1848 B, pl. i, fig. 2 (Pristopoma).

Priem, F. 1914 B, 267, figs. 53-64 ("sciænadarum"; "otolithus").

Regan, C. T. 1913 B, 122.

Richardson, J. 1836 A, 61 (Sciænoideæ).

Sauvage, H. E. 1877 A, 154.

Schubert, R. J. 1902 A, 301 ("sciæniden").

1906 A, 635.

Shepherd, C. E. 1910 B, 296.

1912 A, 450.

1916 A, 178.

Siebenrock, F. 1901 A, 107.

Smith, B. 1909 A, 275.

Stannius, H. 1854 A, 4, seq. (Sciænoidei).

Terra, P. 1911 A, 216.

Tomes, C. S. 1878 A, 38 (Sargus).

1900 A, 36 (Sargus).

Wagner, R. 1843 A (Sciæna).

Wallace, A. R. 1876 A, ii, 428.

Weiler, W. 1922 A, 75 (otoliths).

Woodward, A. S. 1901 A, 538.

Zittel and Koken 1911 A, 132.

Zittel and Schlosser 1923 A, 139.

POGONIAS Lacepède. Type *P. fasciatus* Lacepède = *Labrus cromis* Linn.

- Hay, O. P. 1902 A, 405.
 Arltdt, T. 1923 A, 683.
 Boulenger, G. A. 1904 D, 663, 751.
 Dean, Gudger, Henn 1923 A, 595, 650.
 Duméril, A. 1856 A, 292.
 Giebel, C. G. 1855 A, 101.
 Gill, T. 1885 B, 34.
 Jordan and Evermann 1917 A, 61.
 Leunis and Ludwig 1883 A, 676.
 Sauvage, H. E. 1877 A, 156.
 Smith, B. 1909 A, 275.

Pogonias cromis (Linn.).

- Hay, O. P. 1902 A, 405.
 Boulenger, G. A. 1904 D, 663 (P. ehromis).
 Günther, A. C. 1880 A, 427, fig. 187.

- Jordan, D. S. 1905 A, ii, 357 (P. ehromis).
 Smith, B. 1909 A, 277, figs. 3, 4, 7-9.
 Recent; Long Island to Mexico: Pleistocene
 (Ashley River); South Carolina.

Pogonias multidentatus Cope.

- Hay, O. P. 1902 A, 406.
 Clark and Miller 1912 A, 167, 168.
 Hussakof, L. 1908 A, 88, pl. v, fig. 13.
 Smith, B. 1909 A, 275, figs. 10-13.
 Woodward, A. S. 1901 A, 538.
 Miocene; Virginia.

Pogonias sp. indet.

- Hay, O. P. 1902 A, 406. Eocene?; South Carolina.

OTOLITHIDÆ Jordan.

- Jordan, D. S. 1921 A, 282.
 Arltdt, T. 1923 A, 683 (Otolithus).
 Boulenger, G. A. 1901 D, 384 (Otolithus).

- Jordan, D. S. 1923 A, 202.
 Shepherd, C. E. 1910 B, 296, pl. i, fig. 17 (Otolithus).

LOMPOQUIA Jordan and Gilbert. Type *L. retropes* Jordan and Gilbert.

- Jordan and Gilbert 1919 A, 49.
 Jordan, D. S. 1921 A, 282.
Lompoquia retropes Jordan and Gilbert.
 Jordan and Gilbert 1919 A, 49, pl. xxiv, fig. 1.
 Jordan, D. S. 1921 A, 281, pl. xlvii.

- Jordan, D. S. 1922 D, 274, fig. 7.
 1924 B, 47, pl. K.
 1925 B, 32.
 Jordan and Gilbert 1920 A, 30, pl. xix.
 Mioocene (Monterey); California.

ARISTOSCION Jordan. Type *A. emprepes* Jordan.

- Jordan, D. S. 1920 C, 571.
 1921 A, 282.

Aristoscion emprepes Jordan.

- Jordan, D. S. 1920 C, 571.
 1921 A, 282, 283, pl. vi, fig. b; pl. xlviii
 (A. eprepes).
 Miocene (Monterey); California.

IOSCION Jordan. Type *I. morgani* Jordan.

- Jordan, D. S. 1921 A, 283.

Ioscion morgani Jordan.

- Jordan, D. S. 1921 A, 283, pl. viii, fig. a; pl.
 xlix, fig. a.
 Miocene (Monterey); California.

Suborder LABRIFORMES Regan.

Unless otherwise indicated the authors, as
 below quoted, use for this group the name
 Pharyngognathi.
 Regan, C. T. 1913 B, 112, 132 (Labriformes, as
 "division").

- Hay, O. P. 1902 A, 400.
 Arltdt, T. 1907 D, 672.
 Bronn, H. G. 1849 A, 780, seq.
 Carus, V. 1875 A, 546.
 Cockerell, T. D. A. 1913 B, 166.
 Cope, E. D. 1871 T, 456.
 Fowler, H. W. 1911 A, 183.
 Gill, T. 1873 F, 8 (Labroidea).
 Greene, J. R. 1861 A, 228.
 Günther, A. C. 1881 A, 691.
 Jordan, D. S. 1905 A, ii, 384, 586.
 1907 B, 595, 768.

- Jordan, D. S. 1923 A, 221.
 Klein, E. F. 1879 A, 69, 72.
 1884 A, 130, 135 (Pharyngognathi).
 1885 A, 222, 234.
 1886 A, 213, 274, 285 (Pharyngognathi).
 Kner, R. 1861 A, 247.
 Leunis and Ludwig 1883 A, 703.
 Lönnberg, E. 1901 A.
 Müller, J. 1846 C, 131, 155, 199.
 Owen, R. 1866 A, 10, 11.
 Parker and Haswell 1897 A, 206.
 Stannius, H. 1854 A, 5, seq.
 Stephan, P. 1900 A, 314 ("pharyngognathes").
 Zittel and Schlosser 1923 A, 142 (Pharyngog-
 nathi).
 Zittel and Woodward 1902 A, 102.

LABRIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 93, 111.
Hay, O. P. 1902 A, 400.
Agassiz, L. 1844 D, 142 ("labroides").
Allis, E. P. 1909 A, 201.
Arlt, T. 1907 D, 661.
 1923 A, 688 ("labriden").
Baudelot, E. 1873 A, 101 ("labroides").
Bonaparte, C. L. 1838 B, 132.
Boulenger, G. A. 1904 A, 181.
 1904 D, 673, 744.
Bridge, T. W. 1896 A, 574.
Bronn, H. G. 1849 A, 780, seq.
Carus, V. 1875 A, 547 (Labroides).
Cockerell, T. D. A. 1913 B, 166.
Cope, E. D. 1871 T, 459.
Creaser, C. W. 1926 A, 53.
Cuvier, G. 1805 A ("labres").
 1815 A, 110 ("labres").
Dean, Gudger, Henn 1923 A, 686.
Dietz, P. A. 1914 A, 113, figs. 7, 9.
Fitzinger, L. J. 1873 A, 30 (Labri).
Fowler, H. W. 1911 A, 183.
Frost, G. A. 1928 A, 452, pl. xvii.
Fryd, C. 1901 A, 25.
Fulton, T. W. 1906 A, 61, pls. ii B, v.
Gill, T. 1885 B, 35.
 1885 C, 237.
 1905 A, 656 ("wrasses").
Goodrich, E. S. 1909 A, 446.
Günther, A. C. 1881 A, 691.
Haseman, J. D. 1912 A, 98.
Heekel, J. 1850 B, 146 ("labriden").
 1856 A, 268 (Labroides).
Hoernes, R. 1886 A, 534.
- Jordan, D. S.* 1903 A, 137 ("labroids").
 1905 A, ii, 385, 577.
 1907 B, 590.
 1923 A, 221.
Jordan and Gilbert 1882 A, 597.
Klein, E. F. 1879 A, 66, 101.
 1884 A, 130, 140, 222, 248.
 1885 A, 108, 113, 141, 172, 199, 208, 235.
 1886 A, 206, 207, 214, 250, 251, 285.
Kner, R. 1861 B, 140 (Labroides).
Köstlin, O. 1844 A ("labroiden").
Leriche, M. 1900 A, 173.
Leunis and Ludwig 1883 A, 704.
Meekel, J. F. 1825 A (Labrus).
Meek, A. 1916 A, 306.
Müller, J. 1845 A, 102, 136 (Labroides).
Mummery, J. H. 1917 A, 251, 260.
Priem, F. 1907 C, 82, 100, 115 ("labrides").
Pouehet, G. 1878 A, 41, 145, pl. v (Labrus).
Regan, C. T. 1913 B, 132, 134.
Richardson, J. 1836 A, 106 (Labroides).
Schlosser, M. 1917 A, 142 ("labriden").
Schmalhausen, J. J. 1916 C, 213.
Sehubert, R. J. 1906 A, 652.
Shepherd, C. E. 1910 A, 419.
 1911 A, 453.
Siebenroek, C. H. 1901 A, 107.
Stannius, H. 1854 A, 5 seq. (Labroides).
Terra, P. 1911 A, 215.
Wallace, A. R. 1876 A, II, 437.
Whitehouse, R. H. 1910 B, 613, pl. xlix, fig. 21.
Woodward, A. S. 1901 A, 539.
Zittel and Koken 1911 A, 133.
Zittel and Schlosser 1923 A, 142.
Zittel and Woodward 1902 A, 103.

PROTAUTOGA Leidy. Type *P. conidens* Leidy.

- Hay, O. P.* 1902 A, 401.
Protautoga conidens Leidy.
Hay, O. P. 1902 A, 401.
- Clark and Miller* 1912 A, 167, 168 (*P. conideus*).
Woodward, A. S. 1901 A, 553.
 Mioocene, Virginia.

PHARYNGODOPILIDÆ Cocchi.

- Cocchi, I.* 1864 A, 329.
Hay, O. P. 1902 A, 400 (Labridæ, in part).
Jordan, D. S. 1923 A, 221 (Pharyngopilidæ).
- Sauvage, H. E.* 1875 B, 615 (Pharyngodopilidæ, Phyllodidæ).

NUMMOPALATUS Rouault. Type *N. edwardsius* Roualt.

- Hay, O. P.* 1902 A, 401.
Arlt, T. 1923 A, 688.
Gervais, F. L. 1857 Mém. Acad. Sci. Montpellier, III, 515 (Labrodon).
Jordan, D. S. 1919 B, 284 (Syn. of Labrodon Gervais).
Leriche, M. 1900 A, 174, 176.
Priem, F. 1901 A, 497.
 1908 B, 101 (Labrodon).
- Woodward, A. S.* 1901 A, 541 (Syn. of Labrodon).
Zittel and Schlosser 1923 A, 142, fig. 245.
Zittel and Woodward 1902 A, 103.
- Nummopalatus carolinensis** (Leidy).
Hay, O. P. 1902 A, 401.
Woodward, A. S. 1901 A, 543 (Labrodon).
 Tertiary (Phosphate beds); South Carolina.

PHYLLodus Agassiz. Type *P. toliapicus* Agassiz.

- Hay, O. P.* 1902 A, 401.
Arlt, T. 1923 A, 688.
Boulenger, G. A. 1904 D, 674.
Bronn, H. G. 1849 A, 668.
Eastman, C. R. 1901 B, 112.
Fowler, H. W. 1911 A, 184.
- Gervais, P.* 1852 A, explan. pl. lxvii, lxviii.
 1859 A, 516, pls. lxvii, lxviii.
Giebel, C. G. 1855 A, 106, pl. xlv, fig. 9.
Jordan, D. S. 1905 A, ii, 396.
Leriche, M. 1900 A, 174.
 1905 A, 165.

- Leriche, M. 1906 C, 419.
 Priem, F. 1901 A, 494.
 1908 B, 100, 115, fig. 58.
 Sauvage, H. E. 1875 B, 615 (Phyllodus, Paraphyllodus).
 Woodward, A. S. 1901 A, 546.
 1922 C, 105, fig. 116.
 Zittel and Koken 1911 A, 133.
 Zittel and Schlosser 1923 A, 142, fig. 244.
 Zittel and Woodward 1902 A, 103.

Phyllodus curvidens Marsh.

- Hay, O. P. 1902 A, 401.
 Eastman, C. R. 1901 B, 111, 113.
 Fowler, H. W. 1911 A, 184.
 Kummel, H. B. 1911 A, 184.

- Woodward, A. S. 1901 A, 550.
 Miocene (Kirkwood); New Jersey.

Phyllodus elegans Marsh.

- Hay, O. P. 1902 A, 401.
 Eastman, C. R. 1901 B, 112.
 Fowler, H. W. 1911 A, 184, fig. 108.
 Kummel, H. B. 1911 A, 168.
 Woodward, A. S. 1901 A, 550.
 Upper Cretaceous (Manasquan); New Jersey.

Phyllodus hipparionyx Eastman.

- Eastman, C. R. 1901 B, 113.
 Hay, O. P. 1902 A, 401.
 Woodward, A. S. 1901 A, 617.
 Eocene; Virginia.

Suborder EPHIPPIFORMES Jordan.

- Jordan, D. S. 1923 A, 205.
 Cockerell, T. D. A. 1913 B, 167.

- Stannius, H. 1854 A (Squammipennes).
 Steinmann, G. 1927 A, 450 ("squammipennes").

EPHIPPIDÆ Gill.

- Gill, T. 1872 C, 8.
 Hay, O. P. 1902 A, 400 (Chætodontidæ).
 Boulenger, G. A. 1904 D, 668 (Chætodontidæ).
 Cockerell, T. D. A. 1913 B, 167.
 Dean, Gudger, Henn 1923 A, 513, 650 (Ephippus).
 Frost, G. A. 1927 A, 304, pl. v.
 Gill, T. 1885 C, 203.

- Jordan, D. S. 1905 A, ii, 400 (Ephippidæ, Harichidæ).
 1907 B, 611 (Ephippidæ, Harichidæ).
 1923 A, 205.
 Jordan and Evermann 1898 A, 1666.
 Jordan and Gilbert 1882 A, 612.
 Owen, R. 1848 B, 57, 147 (Ephippus).
 Regan, C. T. 1913 B, 127.
 Steinmann, G. 1927 A, 51 ("chaetodonten").
 Woodward, A. S. 1901 A, 559 (Ephippus).

CHÆTODIPTERUS Lacepède.

- Hay, O. P. 1902 A, 400.
 Arltdt, T. 1923 A, 685 (Ephippus).
 Dean, Gudger, Henn 1923 A, 415.
 Duméril, A. 1856 A, 333 (Ephippus).
 Gill, T. 1885 B, 34.
 1885 C, 209.
 Goodrich, E. S. 1909 A, 434, fig. 442 (Ephippus).
 Jordan, D. S. 1903 A, 137.
 1905 A, ii, 400, 562.
 1907 B, 611.
 Jordan and Evermann 1917 A, 64 (Chætodipterus); 105 (Ephippus).
 Jordan and Gilbert 1882 A, 613.
 Klein, E. F. 1885 A, 225 (Ephippus).
 Kner, R. 1861 B, 129 (Ephippus).

Type *C. plumieri* Lacepède.

- Köstlin, O. 1844 A (Ephippus).
 Owen, R. 1848 B, 57, 147 (Ephippus).
 Priem, F. 1908 B, 116, fig. 59 (Ephippus).
 Regan, C. T. 1913 B, 127 (Ephippus).
 Stannius, H. 1854 A (Ephippus).
 Steinmann, G. 1927 A, 51.
 Stephan, P. 1900 A, 300 (Ephippus).

Chætodipterus faber (Brouss).

- Hay, O. P. 1902 A, 400.
 1923 A, 381.
 Jordan, D. S. 1905 A, ii, 400.
 Meek, A. 1916 A, 305 (Ephippus).
 Recent; Cape Cod to Rio de Janeiro: Pleistocene; Florida.

PLATACIDÆ Jordan.

- Jordan, D. S. 1905 A, ii, 401, 586.

- Jordan, D. S. 1923 A, 204.

PLATAX Cuvier. Type *Chaetodon teira* Bloch.

- Cuvier, G. 1817, Règne Anim., II, 334.
 Hay, O. P. 1902 A, 403.
 Agassiz, L. 1843 B (1842), iv, 244.
 Arltdt, T. 1923 A, 685.
 Bronn, H. G. 1848 B, 991.
 Duméril, A. 1856 A, 351.
 Eastman, C. R. 1901 B, 111.
 Jordan, D. S. 1903 A, 137.
 1905 A, ii, 401, 586.
 Jordan and Evermann 1917 A, 105 (In Ephippidæ).

- Klein, E. F. 1879 A, 94.
 1884 A, 215.
 1885 A, 112, 138, 171, 231.
 1886 A, 206, 245.
 Köstlin, O. 1844 A.
 Leriche, M. 1906 C, 420.
 Lütken, C. F. 1881 A, 118.
 Newton, E. T. 1882 A, 122, pl. xix, figs. 1-3.
 1891 A.
 Owen, R. 1866 A, 39, 612.
 Stannius, H. 1854 A, 4.

- Woodward, A. S. 1901 A, 426, 432 (In Caran-
gidæ).
Zittel and Koken 1911 A, 137.
Zittel and Schlosser 1923 A, 145.

Platax sp. indet.

Hay, O. P. 1902 A, 403. Pliocene?; South Car-
olina.

Order GOBIOMORPHI, new name.

- Jordan, D. S. 1923 A, 224 (Gobioidea). | Regan, C. T. 1911 H, 731 (Gobioidea).

Suborder GOBIIFORMES Günther.

- Günther, A. C. 1880 A, 483.
Arlt, T. 1923 A, 693 ("gobiiformen").
Boulenger, G. A. 1904 A, 183.
1904 D, 688.
Dean, Gudger, Henn 1923 A, 657.
Dietz, P. A. 1914 A, 129.
Goodrich, E. S. 1909 A, 447.
Günther, A. C. 1881 A, 690.

- Jordan, D. S. 1905 A, ii, 459 (Gobioidei).
1907 B, 670.
1923 A, 224 (Gobioidea).
Regan, C. T. 1909 B, 81 (Gobioidei).
1911 H, 729 (Gobioidea).
1912 B, 850 (Gobioidei).
1913 B, 111 (Gobioidea).
Woodward, A. S. 1901 A, 587.
Zittel and Schlosser 1923 A, 143.

Superfamily GOBIOIDÆ, new form.

- Dean, Gudger, Henn 1923 A, 590 (Gobioidea). | Gill, T. 1885 C, 255 (Gobioidea).
Gill, T. 1872 C, 6 (Gobioidea). | Jordan, D. S. 1907 B.

GOBIIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 93, 110 (Gobidæ).
Allis, E. P. 1909 A, 214.
Arlt, T. 1907 D, 656.
Bassoli, G. G. 1906 A, 54, pl. ii (Gobius, oto-
liths).
Boulenger, G. A. 1904 D, 689.
1917 B, 329.
Carus, V. 1875 A, 539 (Gobioidei).
Cockerell, T. D. A. 1913 B, 169.
Dean, Gudger, Henn 1923 A, 682.
Fiebiger, J. 1905 A, 140 (Gobii).
Gill, T. 1872 C, 7.
1885 C, 255.
Goodrich, E. S. 1909 A, 448 (Gobidæ).
Günther, A. C. 1861 A, 1.
1880 A, 485.
1881 A, 690.
Jordan, D. S. 1905 A, ii, 458.
1907 B, 670.
1923 A, 224.
Jordan and Evermann 1898 A, 2188.
Jordan and Gilbert 1882 A, 629.
Klein, E. F. 1879 A, 96, 115.
1884 A, 135, 147, 181, 216.
1885 A, 118, 175, 199, 235.
1886 A, 218, 254, 281.
Meek, A. 1916 A, 341.
Müller, J. 1846 C, 158 (Gobioidei).

- Noorden, C. 1883 A, 235 (Gobius).
Norman, E. W. 1926 A, 407 (Gobius).
Owen, R. 1845 B, 102 ("gobioids").
Pouchet, G. 1875 A, 293, 297 (Gobius).
1878 A, 40, 55, figs. (Gobius).
Regan, C. T. 1903 B, 460.
1911 H, 731.
Sagemehl, M. 1884 A, 4.
Schlosser, M. 1917 A, 140, 143 ("gobiiden").
Shepherd, C. E. 1910 B, 295, pl. i, fig. 5
(Gobius).
1916 A, 204.
Siebenrock, F. 1901 A.
Solger, B. 1880 A, 376, 388 (Gobius).
Stannius, H. 1854 A, 4, seq. (Gobioidei).
Starks, E. C. 1911 A, 747.
Terra, P. 1911 A, 217.
Trouessart, E. L. 1906 A, 212.
Woodward, A. S. 1901 A, 587.
Zittel and Koken 1911 A, 134.
Zittel and Schlosser 1923 A, 143.

Aboma antiqua Jordan and Gilbert.*

- Jordan and Gilbert 1919 A, 56, pl. xxix, fig. 1.
Duncker, G. 1923 A.
Jordan, D. S. 1926 B, 223 (Gobius?).
1927 A, 191.
1927 B, 97.

Order COTTOMORPHI, new name.

- Hay, O. P. 1902 A, 406 (Pareiopliteæ).
Allis, E. P. 1907 A, 568 ("mail-cheeked fishes,"
Loricati).
1909 A, 1-144 (Loricati, Craniomi).
1922 B, 194, 207 ("mail-cheeked fishes").
Arlt, T. 1923 A, 694 ("scleropareen").
Belling, D. E. 1912 A, 46 (Scleroparei).
Berg, L. S. 1906 A, 906 (Cataphracti).
1907 A, 1 (Cataphracti).

- Boulenger, G. A. 1904 D, 692 (Scleroparei).
Cockerell, T. D. A. 1913 B, 170 (Scleroparei).
Eastman, C. R. 1911 C, 385 (Scleroparei).
Goetsch, W. 1920 A, 481 (Cataphracti).
Gutberlet, J. E. 1915 A, 1 (Loricati).
Jordan, D. S. 1903 A, 137 (Pareiopliteæ).
1905 A, ii, 426, 585 (Pareiopliteæ).
1907 B, 637 (Pareiopliteæ); 769 (Scleroparei).
1923 A, 208 (Cataphracti).

* This name was applied, through an error, to Steindachner's *Gobius oblongus*, an Austrian fossil fish.

Kindred, J. E. 1919 A, 57 (Loricati).
 Kner, R. 1862 A, 54 (Cataphracti).
 Plate, L. 1926 A, 44 (Cataphracta).
 Regan, C. T. 1913 A, 169, 170 (Scleroparei).
 1913 B, 111 (Scleroparei).

Stannius, H. 1849 A, 540 ("cataphracten").
 1854 A, 4, seq. (Cataphracti).
 Steinmann, G. 1927 A, 80 (Cataphracti).
 Whitehouse, R. H. 1910 B, 616 (Scleroparei).

Suborder SCORPÆNIFORMES Woodward.

Woodward, A. S. 1901 A, 576.
 Jordan, D. S. 1923 A, 208.

Regan, C. T. 1912 B, 850 (Scorpænoidei).
 1913 A, 169, 170 (Scorpænoidei).
 Zittel and Schlosser 1923 A, 143.

SCORPÆNOIDÆ, new form.

Hay, O. P. 1902 A, 406 (Scorpænoidea).
 Allis, E. P. 1919 E, 366 ("mail-cheeked fishes").
 Goodrich, E. S. 1909 A, 449 (Scorpæniformes).

Jordan, D. S. 1923 A, 208 (Scorpæniformes).
 Regan, C. T. 1912 B, 850 (Scorpænoidei).
 1913 A, 170, 174 (Scorpæniformes).

SCORPÆNIDÆ Swainson.

Swainson, W. 1838 A, ii, 53, 56, 180.
 Hay, O. P. 1902 A, 406.
 Abel, O. 1906 C, 83, 84.
 Allis, E. P. 1907 A, 570 (Scorpæna).
 1909 A, 214, pls. i, ii (Scorpæna).
 Arltdt, T. 1907 D, 681.
 1923 A, 694 ("scorpæniden").
 Boulenger, G. A. 1904 D, 694.
 Carus, V. 1875 A, 528 (Scorpænoidei).
 Cockerell, T. D. A. 1913 B, 170.
 Cuvier, G. 1815 A, 110 ("scorpènes").
 Dean, Gudger, Henn 1923 A, 700.
 Dietz, P. A. 1914 A, 134, fig. 20 (Scorpæna).
 Fryd, C. 1901 A, 20.
 Fulton, T. W. 1906 A, 54.
 Gill, T. 1885 B, 35.
 1885 C, 248.
 Goodrich, E. S. 1909 A, 449.
 Günther, A. C. 1881 A, 689.
 Heckel, J. 1850 B, 146 ("scorpæniden").
 Heilprin, A. 1887 A, 296.
 Jordan, D. S. 1905 A, ii, 426, 591.
 1907 B, 637.
 1923 A, 208.
 Jordan and Evermann 1898 A, 1758.
 Jordan and Gilbert 1882 A, 650.
 Kaup, J. J. 1873 A, 73-94.
 Kesteven, H. L. 1926 B, 231.

Klein, E. F. 1884 A, 144, 206, 245 (Scorpæna).²
 1885 A, 109, 166, 201.
 1886 A, 240, 277, fig. 17 (Scorpænina).
 Leunis and Ludwig 1883 A, 672.
 Mackintosh, N. A. 1923 A, 501.
 Meckel, J. F. 1825 A (Scorpæna).
 Meek, A. 1916 A, 345.
 Norman, E. W. 1926 A, 412 (Sebastes).
 Regan, C. T. 1913 A, 170, 172, 174.
 Ridewood, W. G. 1904 A, 58.
 Sauvage, H. E. 1873 A, 726.
 Shepherd, C. E. 1913 A, 386.
 Starks, E. C. 1916 A, 733, fig. 1 (Scorpæna).
 Whitehouse, R. H. 1910 B, 616.
 Woodward, A. S. 1901 A, 577.
 Zittel and Koken 1911 A, 140.
 Zittel and Schlosser 1923 A, 143.

Sebastavus vertebralis Jordan and Gilbert.

Jordan and Gilbert 1919 A, 50, pl. xxxi, fig. 1.
 Duncker, G. 1923 A.
 Jordan, D. S. 1926 B, 223 ("Sebastavus").
 1927 A, 191.
 1927 B, 97.

Through an error, this name was applied to Steindachner's *Gobius elongatus*, an Austrian fossil fish.

SEBASTODES Gill. Type *Sebastes paucispinis* Ayres.

Hay, O. P. 1902 A, 406.
 Allis, E. P. 1909 A, 214.
 Arltdt, T. 1923 A, 694.
 Ayres, W. O. 1863 A, 391, 393, 398.
 Cockerell, T. D. A. 1913 B, 170.
 Cockerell and Moore 1910 B, 93.
 Cramer, F. 1895 A, 573, pls. lvii-lxx.
 Dean, Gudger, Henn 1923 A, 593, 658.
 Gill, T. 1865 C, 145.
 Huntsman, A. G. 1919 A, 592.
 Jordan, D. S. 1905 A, ii, 428, 591.
 1907 B, 640.
 1919 C, 336.
 1921 A, 286.

Jordan and C. Gilbert 1882 A, 652.
 Jordan and J. Z. Gilbert 1920 A, 31.
 Meek, A. 1916 A, 345.

Sebastodes rosæ Eigenmann.

Hay, O. P. 1902 A, 406.
 Cramer, F. 1895 A, 589 (This genus?).
 Hay, O. P. 1927 D, 199.
 Jordan, D. S. 1907 A, 134.
 1907 B, 649.
 Jordan and J. Z. Gilbert 1919 A, 63.
 Woodward, A. S. 1901 A, 579.
 Tertiary (Pliocene?); California.

SEBASTINUS Jordan. Type *Rixator ineziae* Jordan.

Jordan, D. S. 1920 C, 571.
1921 A, 287.
1925 B, 36.

Sebastinus ineziae Jordan.

Jordan, D. S., in Jordan and Gilbert 1920 A,
34, pl. xxii, fig. 2 (Rixator).

Jordan, D. S., in Jordan and Gilbert 1921 A,
287, pl. liv.
1922 D, 674, fig. 8.
1925 B, 37, pl. xix.
Miocene (Monterey); California.

SEBASTOËSSUS Jordan. Type *S. apostates* Jordan.

Jordan, D. S. 1920 C, 571.
1921 A, 285.
1925 B, 36.

Sebastoëssus apostates Jordan.

Jordan, D. S. 1920 C, 571.
1921 A, 285, pl. xiv, fig. a; pl. liii.
1925 B, 36.
Miocene (Monterey); California.

Sebastoëssus haroldi Jordan.

Jordan, D. S. 1925 B, 37, pl. xix.
Miocene (Monterey); California.

Sebastoëssus sp. indet.

Jordan, D. S. 1921 A, 283. Miocene (Monterey); California.

RIXATOR Jordan and Gilbert. Type *Rixator porteousi* Jord. and Gilb.

Jordan and Gilbert 1920 A, 31.
Jordan, D. S. 1921 A, 285, 287.

Rixator porteousi Jordan and Gilbert.

Jordan and Gilbert 1920 A, 33, pls. xxi, xxii,
xxiii.

Jordan, D. S. 1920 A, 22, fig. 5.
1921 A, 284, 286, pl. lii.
1925 B, 38.

Jordan and Gilbert 1919 A, pl. xxii (Ectasis
proriger).
Miocene (Monterey); California.

RHOMARCHUS Jordan and Gilbert. Type *R. ensiger* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 51.

Rhomarchus ensiger Jordan and Gilbert.

Jordan and Gilbert 1919 A, 51, pl. xxxi, fig. 5.

Jordan, D. S. 1921 A, 288, pl. lv.
Miocene (Monterey); California.

HEXAGRAMMOIDÆ, new form.

Jordan, D. S. 1923 A, 210 (Hexagrammiformes).

ANOPLOPOMIDÆ Gill.

Gill, T. 1885 C, 253.
Boulenger, G. A. 1904 D, 697 (Comephoridæ, in
part).
Dean, Gudger, Henn 1923 A, 658 (Anoploma).
Jordan, D. S. 1905 A, ii, 438.
1907 B, 649.

Jordan, D. S. 1921 A, 284.
1923 A, 210.
Jordan and Evermann 1898 A, 186 (Anoplo-
matidæ).
Regan, C. T. 1913 A, 171, 173, 177 (Anoplo-
matidæ).

EOSCORPIUS Jordan and Gilbert. Type *E. primævus* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 53.

Eoscorpius primævus Jordan and Gilbert.

Jordan and Gilbert 1919 A, 53, pl. xxx.

Jordan, D. S. 1921 A, 284.
Miocene (Monterey); California.

HEXAGRAMMIDÆ Gill.

Gill, T. 1889 A, 583, 587.
Arldt, T. 1923 A, 694 ("hexagrammiden").
Boulenger, G. A. 1904 A, 184.
1904 D, 694, 696.
Dean, Gudger, Henn 1923 A, 658.
Goodrich, E. S. 1909 A, 453.
Gutberlet, J. E. 1915 A, 27

Jordan, D. S. 1905 A, ii, 439.
1923 A, 211.
Jordan and Evermann 1898 A, 1863.
Jordan and Gilbert 1882 A, 640 (Chirinæ).
Meek, A. 1916 A, 347.
Regan, C. T. 1913 A, 171, 173, 177.

ZEMIOGRAMMUS Jordan. Type *Z. isistius* Jordan.

Jordan, D. S. 1921 A, 289.

Zemiagrammus isistius Jordan.Jordan, D. S. 1921 A, 289, pl. x, fig. a (*Zemiagrammus*); pl. 1 (*Zemmiagrammus*).1925 B, 35 (Syn.? of *Aræosteus rothi*).

Miocene (Monterey); California.

ACHRESTOGRAMMUS Jordan. Type *Hexagrammos achrestus* Jordan and Gilbert.

Jordan, D. S. 1921 A, 289.

Achrestogrammus achrestus (Jordan and Gilbert).Jordan and Gilbert 1919 A, 52, pl. xxiv, fig. 2 (*Hexagrammos*).

Jordan, D. S. 1921 A, 289.

1922 D, 274, fig. 8 (*Hexagrammos*).Jordan and Gilbert 1920 A, 36, pl. xix (*Hexagrammos*).

Miocene (Monterey); California.

OPHIODONTIDÆ Jordan and Gilbert.

Jordan and Gilbert, J. Z. 1920 A, 36.

Jordan, D. S. 1921 A, 290.

1923 A, 211.

Jordan and Evermann 1898 A, 1864 (*Ophiodontinæ*).Jordan and C. H. Gilbert 1882 A, 640 (*Ophiodontinæ*).OPHIODON Girard. Type *O. elongatus* Girard.

Girard, C. 1854, Proc. Acad. Nat. Sci. Phila., 133.

Boulenger, G. A. 1904 D, 692, 696, fig. 422.

Gill, T. 1885 C, 253.

Goodrich, E. S. 1909 A, 453.

Günther, A. C. 1860 A, 93.

Jordan, D. S. 1905 A, ii, 4.

1907 B, 651.

1921 A, 290.

Jordan and Evermann 1898 A, 1875.

Jordan and Gilbert 1882 A, 646.

Ophiodon ozymandias Jordan.

Jordan, D. S. 1921 A, 290.

Jordan and Gilbert 1920 A, 36 (*Ozymandias gilberti*; not of 1919).

Miocene (Monterey); California.

COTTOIDÆ, new form.

Hay, O. P. 1902 A, 406 (*Cottoidea*).Gill, T. 1872 C, 6 (*Cottoidea*).1873 F, 8 (*Cottoidea*, *Cyclopteroidea*).Gill, T. 1890 A, 363 (*Cottoidea*).Jordan, D. S. 1923 A, 211 (*Cottiformes*).Regan, C. T. 1913 A, 171, 179 (*Cottiformes*).

COTTIDÆ Swainson.

Swainson, W. 1838 A, ii, 181, 270.

Hay, O. P. 1902 A, 406.

Abel, O. 1906 C, 83, 84.

Agassiz, L. 1844 D, 142 ("*cottoides*").

Allis, E. P. 1909 A, 213.

Arlt, T. 1907 D, 648.

1912 A, 760.

1923 A, 695 ("*cottiden*").

Berg, L. S. 1906 A, 906.

1907 A, 37.

Boulenger, G. A. 1904 D, 697.

Bridge, T. W. 1896 A, 571.

Cockerell, T. D. A. 1913 B, 171.

Cuvier, G. 1815 A, 110 ("*cottes*").

Dean, Gudger, Henn 1923 A, 374, 658.

Fitzinger, L. J. 1873 A, 40 (*Cotti*).

Gill, T. 1885 B, 34.

1885 C, 249.

1905 D, 348.

1908 A, 101 (*Cottinæ*).

Girard, C. F. 1851 A.

1852 A, 3 ("*cottoïdes*").

Goetsch, W. 1920 A, 481.

Goodrich, E. S. 1909 A, 103, 453, fig. 64.

Günther, A. C. 1881 A, 690.

Heilprin, A. 1887 A, 68.

Hubbs, C. L. 1926 A, 64 ("*cottoids*").

Jordan, D. S. 1905 A, ii, 441, 565.

1907 B, 652.

1923 A, 213.

Jordan and Evermann 1898 A, 1879.

Jordan and C. Gilbert 1882 A, 682.

Jordan and J. Z. Gilbert 1919 A, 54.

Klein, E. F. 1885 A, 166 (*Cottina*).1886 A, 240, 274, 277 (*Cottina*).

Leunis and Ludwig 1883 A, 687.

Meek, A. 1916 A, 349, 350, 374.

Priem, F. 1914 B, 245, fig. 1 ("*cottidarum*").

Putnam, F. W. 1874 A, 337.

Regan, C. T. 1911 H, 731.

1913 A, 171, 173, 180.

Richardson, J. 1836 A, 36 (*Cottoideæ*).Schlosser, M. 1917 A, 140, 143 ("*cottiden*").

Starks, E. C. 1911 A, 747.

Woodward, A. S. 1901 A, 580.

Zittel and Koken 1911 A, 140.

Zittel and Schlosser 1923 A, 144.

COTTUS Linn. Type *C. gobio* Linn.

- Linnaeus*, C. 1758 A, 264.
 Hay, O. P. 1902 A, 406.
 Agassiz, A. 1877 A, 122.
 Allis, E. P. 1905 A, 465, figs. 31-35.
 1907 A, 570.
 1909 A, 213, pl. iv.
 1922 A, 153.
 Arltdt, T. 1923 A, 695.
 Baudelot, E. 1873 A, 94.
 Beer, G. R. 1924 C, 319, figs. 30, 31.
 Belling, D. E. 1912 A, 55.
 Berg, L. S. 1906 A, 909.
 1907 A, 37.
 Born, G. 1827 A, 188.
 Bronn, H. G. 1848 A, 341.
 1849 A, 680.
 Carlsson, A. 1894 A, 217, 228.
 Cuvier, G. 1805 A.
 Dall and Harris 1892 A, 282.
 Dean, Gudger, Henn 1923 A, 676.
 Derjugin, K. 1909 A.
 1910 A, 597.
 Dietz, P. A. 1914 A, 135, figs. 21, 29.
 1921 A, 443.
 Fryd, C. 1901 A, 21.
 Fulton, T. W. 1906 A, 55, pl. iii.
 Gil, T. 1861 D, 40.
 1908 A, 102, fig. 26.
 Girard, C. F. 1851 A.
 1851 B, 183.
 1852 A, 3, 15.
 Goetsch, W. 1920 A, 13, 15, 492, pls. i, ii.
 Jordan, D. S. 1905 A, ii, 444, 565.
 1907 B, 655.
 Jordan and Evermann 1917 A, 12.
 Jordan and Gilbert 1882 A, 700.
 Klein, E. F. 1879 A, 86, 117.
 1884 A, 208.
 1885 A, 111, 201.
 1886 A, 240, 274, 277.
 Kner, R. 1861 A, 762.
 Köstlin, O. 1844 A.
 Leriche, M. 1905 B, 677.
 Meek, A. 1916 A, 352.
 Noorden, C. 1883 A, 235.
 Owen, R. 1868 A, 874.
 Ryder, J. 1887 A, 354.
 Shann, E. W. 1919 A, 532, 560.
 Stannius, H. 1842 C, 98.
 1854 A, 66.

- Stephan, P. 1900 A, 301.
 Thilo, O. 1900 B, 20.
 Totten, A. K. 1914 A, 252.
 Woodward, A. S. 1901 A, 585.

Cottus beldingii Eigenmann and Eigenmann.

- Eigenmann and Eigenmann* 1891, Amer. Naturalist, xxv, 1132.
 Hay, O. P. 1927 D, 152.
 Jordan, D. S. 1924 A, 1, pl. i (*C. beldingi*).
 Jordan and Evermann 1898 A, 1958.
 Recent: Lakes Tahoe and Donner, California: Pleistocene (Lahontan); Nevada.

Cottus cryptotremus Cope.

- Hay, O. P. 1902 A, 406.
 1927 D, 245, 265, 268.
 Leriche, M. 1905 B, 678.
 Woodward, A. S. 1901 A, 585.
 Pleistocene (Idaho); Idaho.

Cottus divaricatus Cope.

- Hay, O. P. 1902 A, 406.
 Dall and Harris 1892 A, 282.
 Hay, O. P. 1927 D, 245.
 Hussakof, L. 1908 A, 68, fig. 36a.
 Leriche, M. 1905 B, 678.
 Woodward, A. S. 1901 A, 585.
 Pleistocene (Idaho); Oregon.

Cottus hypoceras Cope.

- Hay, O. P. 1902 A, 406.
 Dall and Harris 1892 A, 282.
 Hay, O. P. 1927 D, 245.
 Hussakof, L. 1908 A, 69, fig. 36e.
 Leriche, M. 1905 B, 678.
 Woodward, A. S. 1901 A, 585.
 Pleistocene (Idaho); Oregon.

Cottus pontifex Cope.

- Hay, O. P. 1902 A, 406.
 Dall and Harris 1892 A, 282.
 Hay, O. P. 1927 D, 245.
 Hussakof, L. 1908 A, 69, fig. 36d.
 Leriche, M. 1905 B, 678.
 Woodward, A. S. 1901 A, 585.
 Pleistocene (Idaho); Oregon.

HAYIA Jordan and Gilbert. Type *H. daulica* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 55.

The family position of this genus is uncertain.

Hayia daulica Jordan and Gilbert.

- Jordan and Gilbert* 1919 A, 55, pl. xxiii, fig. 2.
 Jordan, D. S. 1921 A, 290.
 Miocene (Monterey); California.

ARTEDIELLUS Jordan. Type *Cottus uncinatus* Reinh.

Hay, O. P. 1902 A, 407.

Artediellus atlanticus Jord. and Evermann.

- Hay, O. P. 1902 A, 407.
 Ami, H. M. 1897 A, 22 (*Cottus uncinatus*).

- Ami, H. M. 1901 C, 53 ("Cottus").
 Coleman, A. P. 1901 C, 224 (*Cottus uncinatus*).
 Dawson, J. W. 1857 A, 415 ("Cottus").
 1863 F, 917 ("Cottus").
 1894 C, 203, 265 (*Cottus uncinatus*).
 Hay, O. P. 1923 A, 287.

Johnson, W. A. 1917 A, 25 ("Cottus").
 Lambe, L. M. 1904 C, 39, 44 (A. uncinatus).
 Leriche, M. 1905 B, 677 (Cottus uncinatus).
 Meek, A. 1916 A, 354.

Woodward, A. S. 1901 A, 585 (Cottus uncinatus).
 Recent; Labrador to Cape Cod: Pleistocene; Ontario.

URANIDEA DeKay. Type *U. quiescens* DeKay.

DeKay, J. A. 1842, New York Fauna, Fishes, 61.
 Girard, C. 1851 A, 9.
 Jordan, D. S. 1905 A, ii, 444.
 Jordan and Evermann 1898 A, 1963.
 Jordan and Gilbert 1882 A, 693.

Uranidea? sp. indet.
 Dall, W. H. 1889, in Diller, J. S. 1889 A, 418 ("Uranidea." This genus?).
 Turner, H. W. 1899 A, 563 (This genus?).
 Neocene; California.

Suborder TRIGLIFORMES Jordan.

Jordan, D. S. 1923 A, 216.

CYCLOPTEROIDÆ, new form.

Hay, O. P. 1902 A, 407 (Cyclopteroidea).
 Allis, E. P. 1909 A, 195 (Cyclopteroidea).

Gill, T. 1873 F, 8 (Cyclopteroidea).
 1890 A, 361-370 (Cyclopteroidea).
 Jordan, D. S. 1923 A, 215 (Cyclopteriformes).

CYCLOPTERIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 96.
 Hay, O. P. 1902 A, 407.
 Arldt, T. 1923 A, 695 ("cyclopteriden").
 Bonaparte, C. L. 1838 B, 132.
 Boulenger, G. A. 1904 D, 698, 737.
 Bridge, T. W. 1896 A, 577.
 Cuvier G. 1815 A, 110 ("cycloptères").
 Dean, Gudger, Henn 1923 A, 658.
 Dietz, P. A. 1914 A, 135.
 1921 A, 456.
 Fitzinger, L. J. 1873 A, 41 (Cyclopteri).
 Gill, T. 1885 B, 34.
 1885 C, 250.
 1890 A, 366.
 Goodrich, E. S. 1909 A, 454.

Guitel, F. 1896 A, 345 ("cycloptères").
 Günther, A. C. 1881 A, 690 (Discoboli).
 Jordan, D. S. 1905 A, ii, 453, 565.
 1907 B, 664.
 1923 A, 215.
 Jordan and Gilbert 1882 A, 744.
 Klein, E. F. 1884 A, 135, 201 (Discoboli).
 Meek, A. 1916 A, 356.
 Müller, J. 1846 C, 158 (Discoboli).
 Putnam, F. W. 1874 A, 337.
 Regan, C. T. 1913 A, 172, 173, 182.
 Schmidt, B. 1913 A, 317 (Cyclopterinae).
 Shepherd, C. E. 1914 A, 271.
 Stannius, H. 1854 A, 4, seq. (Cyclopteri).
 Starks, E. C. 1911 A, 748 (Cyclopteryidæ).

CYCLOPTERUS Linn. Type *C. lumpus* Linn.

Hay, O. P. 1902 A, 407.
 Allis, E. P. 1909 A, 195, 199.
 Baudelot, E. 1873 A, 93.
 Boulenger, G. A. 1904 D, 699, 737, fig. 425.
 Braus, H. 1906 A, 173.
 Cuvier, G. 1805 A.
 Dean, Gudger, Henn 1923 A, 676.
 Derjugin, K. M. 1909 A.
 1910 A, 588.
 Dietz, P. A. 1914 A, 137, figs. 25, 31.
 1921 A, 435, figs. 4, 11.
 Fiebiger, J. 1905 A, 142.
 Gill, T. 1890 A, 361.
 1907 B, 175.
 Goetsch, W. 1920 A, 38, 500.
 Goette, A. 1879 A, 126.
 Goodrich, E. S. 1906 A, 347.
 Guitel, F. 1896 A, 345.
 Huxley, T. H. 1859 H, 38.
 Jordan and Evermann 1917 A, 12.
 Jordan and Gilbert 1882 A, 746.
 Klaatsch, H. 1890 A, 175.
 Klein, E. F. 1884 A, 135, 201, 216.
 1885 A, 199, 204, 235.
 1886 A, 281.
 Kner, R. 1861 A, 767.
 Köstlin, O. 1844 A.
 Leunis and Ludwig 1883 A, 691.

Meckel, J. F. 1825 A.
 Norman, E. W. 1926 A, 402, figs. 42, 50.
 Owen, R. 1848 B, 68.
 1866 A, 180.
 Pehrson, T. 1922 A, 13, 20.
 Putnam, F. W. 1874 A, 335.
 Sagemehl, M. 1884 A, 4.
 Schmidt, B. 1913 A, 313.
 Stannius, H. 1854 A, 95.
 Stephan, P. 1900 A, 385, 388.
 Thilo, O. 1900 A, 19.
 Uhlmann, E. 1921 A, 275.
 Ussow, S. 1900 A, 185, pl. iv.
 Wagner, R. 1843 A.
 Wallace, A. R. 1876 A, ii, 430.

Cyclopterus lumpus Linn.

Hay, O. P. 1902 A, 407.
 Ami, H. M. 1901 C, 54.
 Billings, E. 1856 A, 337, 345 (Cyclopterus).
 Bridge, T. W. 1896 A, 577.
 Coleman, A. P. 1901 C, 224.
 Dawson, J. W. 1857 A, 408, 415.
 1863 F, 917.
 1872 B, 403.
 1872 C, 57, 99.
 1894 C, 203.

- Dietz, P. A. 1921 A, 438, figs. 1-3.
 Fiebiger, J. 1905 A, 141.
 Fulton, T. W. 1906 A, 59, pls. iii, B, v.
 Gill, T. 1885 C, 251, fig. 142.
 1890 A, 368.
 1907 B, 175, figs. 32, 33, 36, 43-47.
 Goetsch, W. 1920 A, 500.
 Guitel, F. 1896 A, 345, pls. vi-x; text-figs. 1-8.
 Hase, A. 1911 A, 217.
 Haug, E. 1911 A, 1876.
 Hay, O. P. 1923 A, 23, 287.
 Jordan, D. S. 1905 A, ii, 453.
 1907 B, 664.
 Jordan and Gilbert 1882 A, 747.
 Lambe, L. M. 1904 C, 39, 44.
 Meek, A. 1916 A, 356, 357, 358.
 Rathke, H. 1822 A, 498, pl. vi.
 Richardson, J. 1836 A, 260.
 Schmidt, B. 1913 A, 313.
 Shepherd, C. E. 1914 A, 271, fig. 3.
 Stromer, E. 1925 B, 363.
 Uhlmann, E. 1921 A, 275, pls. xvi, xvii; text-figs. 1-45.
 Recent; North Atlantic, both coasts: Pleistocene (Leda clay); Ontario.

TRIGLOIDÆ Kaup.

- Kaup, J. J. 1873 A, 79 (as suborder).
 Gill, T. 1889 A, 589 (Craniomi).
 Jordan, D. S. 1905 A, ii, 456 (Craniomi).
 1923 A, 216 (Trigliformes).

TRIGLIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 90, 102.
 Allis, E. P. 1909 A, 17, 113.
 Bassoli, G. G. 1906 A, 53, pl. ii (otoliths).
 Baudelot, E. 1873 A, 94 (Trigla).
 Bonaparte, C. L. 1838 B, 132.
 Boulenger, G. A. 1904 D, 700.
 Cockerell, T. D. A. 1913 B, 171.
 Dean, Gudger, Henn 1923 A, 705.
 Eudes-Deslongchamps, E. 1842 D, 45, pl. v ("trigles").
 Fitzinger, L. J. 1873 A, 40 (Triglæ).
 Geoffroy-St. Hilaire, E. F. 1824 A, 137 ("trigles").
 Gill, T. 1872 C, 6.
 1885 C, 252.
 1889 A, 568, 590.
 Goetsch, W. 1920 A, 481 ("trigliden").
 Goode and Bean 1895 A, 462.
 Goodrich, E. S. 1909 A, 450, 517.
 Günther, A. C. 1860 A, 87.
 Hamburger, R. 1904 A, 83 (Trigla).
 Hertwig, O. 1881 A, 19.
 Jordan, D. S. 1905 A, ii, 456.
 1923 A, 27.
 Jordan and Evermann 1898 A, 2147.
 Jordan and Gilbert 1882 A, 731.
 Kaup, J. J. 1873 A, 71.
 Kesteven, H. L. 1926 B, 231.
 Klein, E. F. 1884 A, 135, 181, 208.
 1885 A, 111, 134, 166, 201.
 1886 A, 209, 240, 277.
 Kner, R. 1862 A, 57 ("trigliden").
 Meek, A. 1916 A, 362.
 Owen, R. 1866 A, 101, fig. 82 (Trigla).
 Sauvage, H. E. 1873 A, 723.
 Schubert, R. J. 1906 A, 641 (Cataphracti).
 Shepherd, C. E. 1912 A, 453.
 Siebenrock, F. 1901 A, 106.
 Stephan, P. 1900 A, 291 ("triglides").
 Supino, F. 1904 A, 629.
 Terra, P. 1911 A, 218.
 Wallace, A. R. 1876 A, ii, 427.
 Weiler, W. 1922 A, 77 (otoliths).
 Williamson, C. 1894 A, 322.
 Woodward, A. S. 1901 A, 585.
 Zittel and Koken 1911 A, 140.
 Zittel and Schlosser 1923 A, 143.

TRIGLA Linnæus. Type *T. lyra* Linnæus.

- Linnæus, C. 1758 A, 300.
 Allis, E. P. 1909 A, 215, pl. v.
 Bassoli, G. G. 1906 A, 53, pl. ii (otoliths).
 Beer, G. R. 1926 A, 339, figs. 107, 114.
 Belling, D. E. 1912 A, 46.
 Boulenger, G. A. 1904 D, 701.
 Bridge, T. W. 1896 A, 571.
 Dean, Gudger, Henn 1923 A, 705.
 Dietz, P. A. 1914 A, 135, figs. 22, 27.
 Fryd, C. 1901 A, 22, fig.
 Fulton, T. W. 1906 A, 55, pl. i, B.
 Goetsch, W. 1920 A, 488, pl. xxii.
 Goode and Bean 1895 A, 463.
 Goodrich, E. S. 1909 A, 450, 517.
 Hamburger, R. 1904 A, 88, 120, pl. ii.
 Jordan, D. S. 1905 A, ii, 456.
 Jordan and Evermann 1898 A, 2176.
 Kindred, J. E. 1919 A, 57.
 Kingsley, J. S. 1925A, 113, 237, figs. 119, 250
 Klein, E. F. 1884 A, 183, 199, 251, pl. ii.
 1885 A.
 Köstlin, O. 1844 A.
 Kolzoff, N. K. 1896 A, 516, fig. 4.
 Leunis and Ludwig 1883 A, 688.
 Pouchet, G. 1878 A, 141 ("trigle").
 Shann, E. W. 1919 A, 532.
 Stannius, H. 1849 A, 536.
 1854 A, 67, 93.
 Thilo, O. 1896 B, 97.
 Weiler, W. 1922 A, 77, pl. i (otoliths).
 Whitehouse, R. H. 1910 C, 139, fig. 3.
 Williamson, C. 1894 A, 322, pls. xiii-xv.
 Woodward, A. S. 1901 A, 586.
Trigla? sp. indet.
 Dana, J. D. 1849 A, 722, pl. xvi (This genus?).
 Quaternary; Oregon.
 Sauvage, H. E. 1873 A, 723.

Order EMBIOTOCOMORPHI, new name.

Jordan, D. S. 1923 A, 217 (Holconoti).

EMBIOTOCIDÆ Günther.

Günther, A. C. 1862 A, 244.

Agassiz, L. 1853 B, 383 (Embiotocoidæ).

Cockerell, T. D. A. 1913 B, 164, pl. xxxviii, figs. 37, 38.

Eigenmann, C. H. 1894 A, 381-478, with 24 pls.

Frost, G. A. 1928 A, 452, pl. xvii (Embiotoca).

Jordan, D. S. 1923 A, 217.

Jordan and Evermann 1898 A, 1493.

Jordan and Gilbert 1882 A, 585.

LIROSCELES Jordan. Type *L. elegans* Jordan.

Jordan, D. S. 1925 B, 32, pl. xvi.

Lirosceles elegans Jordan.

Jordan, D. S. 1925 B, 32, pl. xvi.

Miocene (Monterey); California.

ERISCELES Jordan. Type *E. pristinus* Jordan.

Jordan, D. S. 1925 B, 33.

Erisceles pristinus Jordan.

Jordan, D. S. 1925 B, 33, pl. xvii.

Miocene (Monterey); California.

DASCELES Jordan. Type *D. dassurus* Jordan.

Jordan, D. S. 1925 B, 34.

Dasceles dassurus Jordan.

Jordan, D. S. 1925 B, 34, pl. xviii.

Miocene (Monterey); California.

Order GOBIESOCOMORPHI, new name.

Boulenger, G. A. 1904 D, 708 (Xenoptera).

Gill, T. 1872 C, 13 (Gobiesociformes).

1885 C, 267 (Xenopterygii).

Jordan, D. S. 1905 A, ii, 529 (Xenopterygii).

1907 B, 737 (Xenopterygii).

1921 A, 291 (Xenopterygii).

Jordan, D. S. 1923 A, 228 (Xenopterygia).

Jordan and Evermann 1898 A, 2326 (Xenopterygii).

Regan, C. T. 1909 B, 86 (Xenopteri).

1913 B, 111 (Xenopterygii).

GOBIESOCIDÆ Günther.

Günther, A. C. 1861 A, 489.

Allis, E. P. 1909 A, 214.

Arlt, T. 1907 D, 656.

Boulenger, G. A. 1904 D, 707.

Cope, E. D. 1871 T, 459.

Dean, Gudger, Henn 1923 A, 659.

Gill, T. 1872 C, 5.

1885 C, 267.

Goodrich, E. S. 1909 A, 456.

Jordan, D. S. 1923 A, 238.

Jordan and Evermann 1898 A, 2326.

Jordan and Gilbert 1882 A, 747.

BULBICEPS Jordan. Type *B. raninus* Jordan.

Jordan, D. S. 1919 A, 12.

Hubbs, C. L. 1924 A, 178.

Bulbiceps raninus Jordan.

Jordan, D. S. 1919 A, 5, 12, pl. vi.

1921 A, 291.

Miocene? (Soledad); California.

Order DIODONTOMORPHI, new name.

This order is usually called Plectognathi or

Plectognatha by the authors cited.

Hay, O. P. 1902 A, 407.

Abel, O. 1919 A, 157.

Arlt, T. 1907 D, 674.

1923 A, 700 ("plectognathen").

Bonaparte, C. L. 1831 A, 97.

1833 B, 1202.

Boulenger, G. A. 1901 D, 500.

1904 A, 162, 189.

1904 D, 721, 751.

Bridge, T. W. 1896 A, 578.

Bronn, H. G. 1849 A, 780, seq.

Carus, V. 1875 A, 582.

Cope, E. D. 1871 T, 456.

Cunningham, J. T. 1912 A, 248, 271.

Dean, Gudger, Henn 1923 A, 695.

Dietz, P. A. 1917 A, 86.

Eastman, C. R. 1911 C, 390.

Eichwald, E. 1832 A, 887 ("plectognathen").

Eimer, G. H. T. 1901 A, 61, 107.

Fitzinger, L. J. 1873 A, 46.

Goetsch, W. 1920 A, 19, 39, 450 ("plectognathen").

Goodrich, E. S. 1909 A, 435.

Gill, T. 1885 C, 286.

1905 A, 659, 660.

Greene, J. R. 1861 A, 228.

- Günther, A. C. 1881 A, 688, 694.
 Heckel, J. 1850 B, 146 ("plectognathen").
 Hoernes, R. 1886 A, 527.
 Hoeven, J. 1822 A.
 Hollard, H. 1864 B, 248 ("plectognathes").
 Huxley, T. H. 1859 H, 37.
 1863 F, 427.
 Jaekel, O. 1911 A, 98.
 1919 A, 109.
 Jordan, D. S. 1905 A, ii, 411, 586.
 1907 B, 622, 768.
 1923 A, 239.
 Jordan and Gilbert 1882 A, 852.
 Klaatsch, H. 1890 A, 175 ("plectognathen").
 Klein, E. F. 1879 A, 66, 72.
 1881 A, 349.
 1884 A, 150, 190, 236, 251.
 1885 A, 129, 158, 218, 252.
 1886 A, 230, 269, 296.
 Kner, R. 1860 B, 822.
 Köstlin, O. 1844 A ("plectognathen").
 Latreille, P. A. 1825 A, 114.
 Leunis and Ludwig 1883 A, 763.
 Lönnberg, E. 1901 A.
 1902 A.
 Meek, A. 1916 A, 336.
 Parker and Haswell 1897 A, 207.
 Rauther, M. 1913 A, 1104.
 Regan, C. T. 1902 A, 281.
 1903 A, 285.
 1909 B, 81, 86.
 1912 B, 843, 852.
 1913 B, 111.
 Rosén, N. 1913 A, 1 ("plectognaths").
 1913 B, 1.
 1916 B, 1 ("plectognaths").
 Sagemehl, M. 1884 A, 100 ("plectognathiden").
 Schlosser, M. 1917 A, 142 ("gymnodonten").
 Schmalhausen, J. J. 1916 C, 212.
 Siebenrock, F. 1901 A, 107.
 Stannius, H. 1854 A, 6, seq.
 Starks, E. C. 1916 A, 32.
 Stephan, P. 1898 A, 358 ("plectognathes").
 1900 A, 314.
 Terra, P. 1911 A, 207.
 Tretjakoff, D. 1925 A, 379 ("plectognathen").
 1926 A, 619 ("plectognathen").
 Wallace, A. R. 1876 A, ii, 457.
 Whitthouse, R. H. 1910 B, 620.
 Woodward, A. S. 1898 B, 122.
 Zittel and Koken 1911 A, 142.
 Zittel and Schlosser 1923 A, 140.
 Zittel and Woodward 1902 A, 109.

Suborder BALISTIFORMES, new name.

- Unless otherwise indicated the authors, as cited, use the name Sclerodermi.
 Hay, O. P. 1902 A, 407.
 Abel, O. 1912 F, 199.
 Agassiz, L. 1835 B, 331 (Sclerodermes).
 1835 H, 231 (Sclerodermata).
 1844 D, 142 (Sclerodermes).
 1845 C, 325 (Sclerodermata).
 Arltdt, T. 1923 A, 700 ("sclerodermen").
 Baraldi, G. 1877 A, 44.
 Bonaparte, C. L. 1831 A, 97, 120.
 Boulenger, G. A. 1904 D, 722.
 Bridge, T. W. 1896 A, 578.
 Bronn, H. G. 1848 B, 1124 (Sclerodermes).
 Carus, V. 1875 A, 583.
 Cockerell, T. D. A. 1913 B, 168.
 Cunningham, J. T. 1912 A, 271.
 Cuvier, G. 1814 A, 76 ("sclerodermes").
 Dean, Gudger, Henn 1923 A, 402, 661, 662.
 Duméril, A. 1856 A, 173 ("sclerodermes").
 Fitzinger, L. J. 1873 A, 46 (Sclerodermata).
 Giebel, C. G. 1855 A, 110.
 Gill, T. 1873 F, 6 (Balistoidea).
 1885 C, 287.
 1888 B, 830 ("scleroderms").
 Goetsch, W. 1920 A, 31 ("sclerodermen").
 Goodrich, E. S. 1909 A, 436.
 Günther, A. 1881 A, 694.
 Hoernes, R. 1886 A, 527.
 Jordan, D. S. 1905 A, ii, 412, 591.
 1907 B, 622, 768.
 1923 A, 239.
 Klaatsch, H. 1890 A, 175, 187 ("sclerodermen").
 Köstlin, O. 1844 A ("sclerodermen").
 Latreille, P. A. 1825 A, 115 (Scleroderma).
 Leunis and Ludwig 1883 A, 763.
 Lönnberg, E. 1901 A.
 1902 A.
 Meek, A. 1916 A, 336.
 Rauther, M. 1913 A, 1104.
 Regan, C. T. 1903 A, 286.
 1909 B, 81 (Balistoidei).
 1912 B, 852.
 Rosén, N. 1913 A, 19.
 Schlosser, M. 1917 A, 142.
 Siebenrock, F. 1901 A, 107.
 Steinmann, G. 1927 A, 22 ("sclerodermen").
 Wallace, A. R. 1876 A, II, 457.
 Whitehouse, R. H. 1910 B, 620, pl. I, fig. 33.
 Zittel and Koken 1911 A, 142 (Sclerodermidæ).
 Zittel and Schlosser 1923 A, 140.
 Zittel and Woodward 1902 A, 110 (Sclerodermidæ).

BALISTIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 97, 120.
 Hay, O. P. 1902 A, 407.
 Abel, O. 1922 F, 78.
 Baudelot, E. 1873 A, 112 ("balistes").
 Boulenger, G. A. 1904 A, 189.
 1904 D, 723, 732.
 Cockerell, T. D. A. 1913 B, 168.
 Cope, E. D. 1871 T, 458.
 Cuvier, G. 1805 A ("balistes").
 Cuvier, G. 1815 A, 120 ("balistes").
 Daresté, C. 1872 A, 1527 ("balistes").
 1872 B, 68.
 Dean, Gudger, Henn 1923 A, 670.
 Dietz, P. A. 1914 A, 158, fig. 45 (Balistes).
 Duméril, A. 1856 A, 173 ("balistides").
 Fitzinger, L. J. 1873 A, 47 (Balistæ).
 Geoffroy St. Hilaire, E. F. 1807 B, 423 ("balistes").

- Gill, T. 1885 B, 35.
 1885 C, 287.
 1888 B, 828.
- Goetsch, W. 1920 A, 34, 449, pl. i (Balistes).
- Goodrich, E. S. 1909 A, 437.
- Hamburger, R. 1904 A, 80 (Balistes).
- Jordan, D. S. 1905 A, ii, 412, 558.
 1907 B, 623.
 1923 A, 239.
- Jordan and Gilbert 1882 A, 854.
- Klein, E. F. 1881 A, 330, 349 (Balistina).
 1884 A (Balistina).
 1885 A (Balistina).
 1886 A (Balistina).
- Köstlin, O. 1844 A (Balistes).
- Leriche, M. 1906 C, 273.
- Lönnberg, E. 1902 A (Balistini).
- Mayer, A. F. 1862 A, 109 (Balistes).
- Meckel, J. F. 1825 A ("ballisten").
- Meek, A. 1916 A, 336.
- Müller, J. 1845 A, 102, 137 (Balistini).
- Owen, R. 1845 B, 82, pl. xl (Balistes).
 1866 A, 197 (Balistes).
- Rauther, M. 1919 A, 214, 4 figs.
- Regan, C. T. 1903 A, 288.
- Rosén, N. 1913 B, 1, text-fig. G (Balistes).
 1916 B, 3, 12.
- Sagemehl, M. 1884 A, 4 (Balistes).
- Shepherd, C. E. 1913 A, 388.
- Steinmann, G. 1927 A, 19, pl. i; text-figs. 7-9 (Balisti).
- Stephan, P. 1900 A, 379, 402 ("balistidés").
- Thilo, O. 1896 A, 291, pls. vi, vii ("balisten").
 1898 B, 89 ("balistiden").
- Tretjakoff, D. 1925 A, 381, 386 (Balistes).
 1926 A, 619, figs. 1, 2 (Balistes).
- Wagner, R. 1843 A (Balistes).
- Williamson, W. C. 1851 A, 657, pl. xxviii, fig. 13.
- Woodward, A. S. 1901 A, 565.

GRYPODON Hay. Type *Ancistrodon texanus* Dames.

- Hay, O. P. 1902 A, 408.
- Arlt, T. 1923 A, 700 (Ancistrodon).
- Jordan, D. S. 1920 C, 486.
- Leriche, M. 1905 A, 168 (Ancistrodon).
 1906 C, 263, 411 (Ancistrodon).
 1911 A, 164 (Ancistrodon).
- Priem, F. 1907 B, 415 (Ancistrodon).
- Priem, F. 1908 B, 60, 64, 98, fig. 26 (Ancistrodon).
 1912 B, 271 (Ancistrodon).
- Stromer, E. 1905 C, 187 (Ancistrodon).

Grypodon texanus (Dames).

- Hay, O. P. 1902 A, 408.
 Cretaceous; Texas.

Suborder DIODONTIFORMES, new name.

- Unless otherwise indicated the authors, as cited use the name *Gymnodontes*.
- Hay, O. P. 1902 A, 408 (Diodontoidea).
- Abel, O. 1912 F, 199.
- Agassiz, L. 1833 A, 480 (Gymnodontæ).
 1835 B, 331.
 1835 H, 231 (Gymnodontæ).
 1844 D, 142.
 1845 C, 325 ("gymnodonts").
- Arlt, T. 1907 D, 656 (Gymnodontidæ).
 1923 A, 700 ("gymnodonten").
- Bonaparte, C. L. 1831 A, 97, 120.
 1833 B, 1202.
 1838 B, 131.
 1840 A, 47.
- Born, G. 1827 A, 185 ("gymnodonten").
- Boulenger, G. A. 1901 D, 501.
 1904 D, 725, 741.
- Bridge, T. W. 1896 A, 581.
- Cunningham, J. T. 1912 A, 272.
- Dean, Gudger, Henn 1923 A, 662.
- Duméril, A. 1856 A, 157 ("gymnognathes").
- Eastman, C. R. 1911 C, 390.
- Fitzinger, L. J. 1873 A, 47.
- Giebel, C. G. 1855 A, 110.
- Gill, T. 1885 C, 289.
- Goetsch, W. 1920 A, 19 ("gymnodonten").
- Goodrich, E. S. 1909 A, 439.
- Günther, A. 1881 A, 694.
- Hoernes, R. 1886 A, 527.
- Jaeckel, O. 1911 A, 99.
- Jordan, D. S. 1905 A, ii, 418, 573.
 1907 B, 629, 768.
- Jordan, D. S. 1923 A, 240.
- Jordan and Evermann 1898 A, 1726.
- Klaatsch, H. 1890 A, 175 ("gymnodonten").
- Klein, E. F. 1879 A, 72.
 1885 A, 255.
 1886 A, 231.
- Kner, R. 1860 B, 824 ("gymnodonten").
- Köstlin, O. 1844 A ("gymnodonten").
- Latreille, P. A. 1825 A, 115 (Gymnodonta).
- Leunis and Ludwig 1883 A, 765.
- Lönnberg, E. 1901 A.
 1902 A.
- Müller, J. 1845 A, 102, 137.
- Owen, R. 1839 H, 347 ("gymnodontes").
 1840 H, 74 ("gymnodontes").
 1845 B, 77 ("gymnodonts").
- Rauther, M. 1913 A, 1104.
- Regan, C. T. 1903 A, 286, 291.
 1912 B, 852 (Tetrodontoidei).
- Rosén, N. 1913 A, 19.
- Semon, R. 1901 B, 133 ("gymnodonten").
- Siebenrock, F. 1901 A, 107.
- Stannius, H. 1854 A, 94 (Gymnodontes).
- Thilo, O. 1896 A, 333 ("gymnodonten").
- Tomes, C. S. 1878 A, 41 ("gymnodonts").
- Tretjakoff, D. 1926 A, 619 (Gymnodontes).
- Wallace, A. R. 1876 A, ii, 457.
- Zittel and Koken 1911 A, 142 (Gymnodontidæ).
- Zittel and Schlosser 1923 A, 141 (Gymnodontidæ).
- Zittel and Woodward 1902 A, 110 (Gymnodontidæ).

DIODONTIDÆ Richardson.

- Richardson, J. 1856 A, 314.
 Hay, O. P. 1902 A, 408.
 Boulenger, G. A. 1904 D, 726.
 Cope, E. D. 1871 T, 438.
 Cunningham, J. T. 1912 A, 248.
 Cuvier, G. 1801 A, 25 ("diodons").
 1803 A, 166 ("diodons").
 1815 A, 120 ("diodons").
 Dean, Gudger, Henn 1923 A, 402, 662.
 Eastman, C. R. 1911 C, 390.
 Fitzinger, L. J. 1873 A, 48 (Diodontes).
 Gill, T. 1885 B, 35.
 1885 C, 290.
 Goodrich, E. S. 1909 A, 440.
- Jordan, D. S. 1905 A, ii, 422.
 1907 B, 633.
 1923 A, 241.
 Jordan and Gilbert 1882 A, 859 (Diodontinæ).
 Meek, A. 1916 A, 337.
 Owen, R. 1866 A (Diodon).
 Regan, C. T. 1903 A, 292.
 1912 B, 852.
 Rosén, N. 1913 A, 19.
 1913 B, 24.
 1916 B, 10, 20.
 Shufeldt, R. W. 1917 A, 1.
 Woodward, A. S. 1901 A, 570 (Gymnodontidæ).

DIDON Linn. Type *D. hystrix* Linn.

- Hay, O. P. 1902 A, 408.
 Abel, O. 1908 E, 415 (Cheirodus).
 Agassiz, L. 1835 H, 231.
 Allis, E. P. 1909 A, 63.
 Arltdt, T. 1923 A, 700.
 Baudelot, E. 1873 A, 94.
 Boulenger, G. A. 1904 D, 726, 738.
 Bridge, T. W. 1896 A, 582, pl. xxiii.
 Dean, Gudger, Henn 1923 A, 677.
 Duméril, A. 1856 A, 159.
 Eimer, G. H. T. 1901 A, 41, 61.
 Goetsch, W. 1920 A, 25, pl. i.
 Goette, A. 1879 A, 127.
 Goodrich, E. S. 1909 A, 440, 442, figs. 452-455.
 Hyrtl, C. J. 1862 A, 106.
 Jordan, D. S. 1905 A, ii, 423, 566.
 Jordan and Evermann 1917 A, 15.
 Jordan and Gilbert 1882 A, 862.
 Klein, E. F. 1884 A, 132, 135, 240, 242, 249,
 pl. iii.
 1885 A, 220.
 1886 A, 272, 296, 299, fig. 18.
 Kner, R. 1860 B, 824.
 Köstlin, O. 1844 A.
 Leriche, M. 1905 A, 212.
 1906 C, 414.
 Leunis and Ludwig 1883 A, 766.
 Meckel, J. F. 1825 A.
 Meek, A. 1916 A, 337, 339.
 Owen, R. 1840 H, 74.
 1848 B, 113.
- Owen, R. 1868 A, 877.
 Pasquale, M. 1905 A, 71.
 Regan, C. T. 1903 A, 291, fig. 57.
 Ridewood, W. G. 1896 A, 387, 390.
 Rosén, N. 1913 B, 24.
 Schlosser, M. 1917 A, 144.
 Shufeldt, R. W. 1917 A, 1.
 Stannius, H. 1849 A, 539.
 1854 A, 6, seq.
 Stephan, P. 1900 A, 387.
 Thilo, O. 1896 B, 104.
 Tretjakoff, D. 1925 A, 381.
 1926 A, 639, fig. 10.
 Woodward, A. S. 1901 A, 571.
 1922 C, 105, fig. 117.

Diodon vetus Leidy.

- Hay, O. P. 1902 A, 408.
 Pasquale, M. 1905 A, 71, figs. 1-3.
 Woodward, A. S. 1901 A, 573.
 Phosphate beds; South Carolina: Miocene;
 North Carolina: Pleistocene?; Florida (Cat.
 No. 4110. Wagner Free Inst., from Peace
 Creek, Florida).

Diodon sp. indet.

- Hay, O. P. 1923 A, 381. Pleistocene (Early);
 Florida.
 Tuomey, M. 1848 A, 159, 160. Eocene (Santee
 beds); South Carolina.

ZAPRORIDÆ Jordan.

- Jordan, D. S. 1896, Proc. Calif. Acad. Sci., vi,
 202.
 1923 A, 230.
- Jordan and Evermann 1898 A, 2848.
 Jordan and Gilbert 1920 A, 25.
 A family of uncertain position.

ARÆOSTEUS Jordan and Gilbert. Type *Aræosteus rothi* Jordan and Gilbert.

- Jordan and Gilbert 1920 A, 25.
- Aræosteus rothi** Jordan and Gilbert.
 Jordan and Gilbert 1920 A, 25, pl. xiv.
- Jordan, D. S. 1921 A, 291, pl. xlix, fig. b.
 1925 B, 35 (Zeniagrammus isistius a syn.?)
 Miocene (Monterey); California.

OTOLITHS.

- Hay, O. P. 1902 A, 408.
- Bassoli, G. G. 1906 A, 36, pls. i, ii ("otoliti").
 Eastman, C. R. 1901 B, 113 ("otolites").
 Frost, G. A. 1925 A, 152, 553.
- Frost, G. A. 1926 A, 465.
 1927 A, 298.
 1928 A, 451.
 1928 B, 328.

Fryd, C. 1901 A, 7 (Otolithes).
 Ihring, H. 1891 C, 23 (Otolithi).
 Posthumus, O. 1923 A, 231.
 Priem, F. 1908 B ("otolithes").
 1914 B, 244-278, figs.

Schubert, R. J. 1902 A (Otolithes).
 1905 A, 613 (Otolithes).
 Shepherd, C. E. 1910 B.
 1916 A.
 Woodward, A. S. 1901 A, 629.

Class AMPHIBIA Linnæus.

Linnæus, C. 1858 A, i, 194.
 Hay, O. P. 1902 A, 409 (Batrachia).
 Abel, O. 1910 B, 185 ("amphibien").
 1912 F, 300, 414.
 1919 A, 220.
 1920 A, 345.
 1921 A, 143, 247 ("amphibien").
 Adams, C. C. 1902 A, 116.
 Adams, L. A. 1919 A, 83, 139, 144.
 Adloff, P. 1904 B, 54 ("amphibien").
 1907 A, 531 ("amphibien").
 1910 B, 241 ("amphibien").
 Adolphi, H. 1896 A, 115 ("amphibien").
 Agar, W. E. 1907 A, 625.
 Allis, E. P. 1898 A, 457.
 1907 A, 570 ("amphibien").
 1913 A, 324.
 1915 A.
 1918 A, 244.
 1919 B, 80.
 1923 A, 48.
 1923 B, 132.
 Altmann, F. 1925 A, 88 ("amphibien").
 Anderson, R. J. 1912 A, 917.
 1912 D, 250.
 Anonymous, 1912 A, 519.
 Anthony, R. 1912 A ("batraciens").
 Anthony and Vallois 1914 A, 218 ("batraciens").
 Arldt, T. 1907 C, 678 ("amphibien").
 1907 D, 637.
 1907 E, 204 ("amphibien").
 1909 B, 354 ("amphibien").
 1916 A, 94 ("lurche").
 Arthaber, G. 1910 A, 552 ("amphibien").
 Ayers, H. 1906 A, 77.
 Baird, S. F. 1876 A, ec, 308 ("batrachia").
 Baraldi, G. *passim* ("amfibi").
 Bardeleben, K. 1896 A, 114 ("amphibier").
 1901 A ("amphibien").
 1903 A, 23 ("amphibien").
 1906 A, 140 ("amphibien").
 1907 A, 35 ("amphibien").
 1907 B, 154 ("amphibien").
 Bardenfleth, K. S. 1913 A, 69 ("amphibians").
 Barrell, J. 1915 B, 391, 409 ("amphibians").
 Baur, G. 1887 H, 47 ("amphibien").
 1893 D, 116 ("amphibien").
 1897 D, 42.
 1897 E, 170.
 1897 F, 372.
 Beede, J. W. 1922 A, 680.
 Beer, G. R. 1926 A, 307.
 Bender, O. 1907 A, 38 ("amphibien").
 1910 A, 123 ("amphibien").
 1913 A, 285 ("amphibien").
 Bergmann, C. 1841 A, 204 ("amphibien").
 Beyer, H. 1907 A, 265, 267 ("amphibien").
 1909 A, 32 ("amphibien").
 Bischoff, T. L. W. 1840 B, 144 ("amphibies").

Blainville, H. M. D. 1835 A, 272.
 Boas, J. E. V. 1914 B, 548, 550 ("amphibien").
 1914 C, 239 ("amphibien").
 Bogoljubsky, S. 1914 A, 659.
 Böker, H. 1927 A, 21, 50, fig. 13 ("uramphib").
 Bolk, L. 1913 A, 113 ("amphibien").
 Bonaparte, C. L. 1832 A, 318.
 1833 B, 1186 (Amphibia=Reptilia+Batrachia).
 Boulenger, G. A. 1901 B, 401.
 1902 F, 381.
 1917 C, 458 ("batraciens").
 Brandt, J. F. 1865 A, 220.
 Branson, E. B. 1918 A, 90 ("amphibians").
 Brauns, D. 1890 A, 147, 148 ("amphibien").
 Braus, H. 1906 A, ("amphibien").
 1906 B, 549 ("amphibien").
 Bridge, T. W. 1878 A, 721, 724.
 Broili, F. 1904 A, 107 ("amphibien").
 Bronn, H. G. 1849 A, 780, seq. (Batrachii).
 Broom, R. 1890 A, 410 ("amphibians").
 1899 A, 749 ("amphibians").
 1903 I, 554.
 1904 B, 94.
 1908 A, 1047.
 1908 E, 114 ("amphibians").
 1909 B, 165.
 1911 A, 920 (Batrachia).
 1912 A, 625 ("amphibien").
 1926 A, 257 ("amphibians").
 Bruch, C. 1862 A, 77 ("batrachien").
 Burekhardt, R. 1903 A, 78 ("amphibien").
 1906 A, 159 ("sauropsiden").
 Cahall, W. C. 1890 A, 232 ("amphibians").
 Carter, J. T. 1905 A, 129.
 Cartier, O. 1875 A, 73 ("amphibien").
 Carus, V. 1875 A, 454.
 Carus and Engelmann 1861 A, 1052-1065, 1562.
 1673, 1703.
 Case, E. C. 1905 E, 180 ("amphibiens").
 1907 E, 157.
 1911 B, 85.
 1912 A, 200.
 1915 A, 96.
 1924 B, 6.
 Chainé, J. 1918 A, 734 ("batraeicns").
 Cleland, J. 1887 A, 392.
 Cope, E. D. 1885 BB, 65 (Batrachia).
 1885 DD, 303 (Batrachia).
 1885 EE, 612 ("batrachians").
 1891 N, 7, 28 (Batrachia).
 Coyle, R. F. 1909 A, 582.
 Cunningham, J. T. 1897 A, 485.
 Cunningham and Boulenger 1912 A, 157-230.
 Cuvier, G. 1803 A, 168 ("batrachiens").
 1815 A, 106 ("batrachiens").
 1825 A, v, 2, 386-444, pls. xxiv-xxvii.
 Dabelow, A. 1926 A, 95 ("sauropsiden").
 Dana, J. D. 1863 B, 315 ("amphibians").

- Dana, J. D. 1863 C, 343 ("amphibians").
 1863 D, 130 ("batrachians").
 Davidoff, M. 1879 A, 506 ("amphibien").
 Davidson, A. 1895 A, 407.
 Day, H. 1915 A, 427.
 Delsman, H. C. 1913 A, 659 ("amphibien").
 1924 A, 155 ("amphibians").
 Dendy, A. 1907 A, 292 ("amphibien").
 Deninger, K. 1914 A, 186-214 ("amphibien").
 1915 A, 183-186 ("amphibien").
 Dependorf, T. 1907 A, 545 ("amphibien").
 Depéret, C. 1907 B ("amphibiens").
 Diener, C. 1909 A, 32 ("amphibien").
 Döderlein, L. 1902 A, 399 ("amphibien").
 Dollo, L. 1883 G, 582.
 1884 D, 86.
 1885 C, 302 ("batrachiens").
 1889 E, 146 ("batrachiens").
 Dombrowski, B. A. 1925 A, 69 ("amphibien").
 Drüner, L. 1902 A, 439 ("amphibien").
 1904 A, 266 ("amphibien").
 Du Toit, P. J. 1913 A, 244 ("amphibien").
 Dunn, E. R. 1923 A, 129.
 Eastman, C. R. 1912 C, 657.
 1913 B, 677.
 1914 B, 688 ("amphibians").
 1916 A, 655 ("amphibians").
 1917 B, 655 ("amphibians").
 Edgeworth, F. H. 1920 A, 125.
 1925 A, 225.
 Eggeling, H. 1906 A, 105 ("amphibien").
 Eimer, G. H. T. 1901 A, 256 ("amphibien").
 Eisler, P. 1895 A ("amphibien").
 Elliot, A. I. M. 1907 A, 648.
 Emery, C. 1895 A, 218 ("amphibiens").
 1901 A, 673 ("amphibien").
 Erdl, M. 1843 A, 507 ("amphibien").
 Fejérváry, G. J. 1921 C, 11 ("amphibien").
 1925 A, 184 ("amphibien").
 Field, H. H. 1895 A, 340 ("amphibien").
 Foote, J. S. 1913 A ("amphibians").
 1916 A, 18 ("amphibien").
 Forster, A. 1905 A, 89-138.
 Frassetto, F. 1915 A ("amfibi").
 Freund, L. 1902 A.
 Fuchs, H. 1906 A, 49 ("amphibien").
 1907 A, 150 ("amphibien").
 1909 B, 122.
 1909 D, 61 ("amphibien").
 1910 A, 39 ("amphibien").
 1910 C, 480 ("amphibien").
 1911 A, 33 ("amphibien").
 1912 B, 105 ("amphibien").
 1913 A, 62 ("amphibien").
 1914 A, 32 ("amphibien").
 1920 C, 93 ("amphibien").
 1926 A, 119.
 1926 B, 1-34.
 Fürbringer, M. 1902 A, 192 ("amphibien").
 1904 A ("amphibien").
 1904 B, 503 ("amphibien").
 Gadow, H. 1901 A, 397.
 1901 B, 3.
 1902 B, 345.
 1913 A, 95.
 1914 A, 506, 508.
 Gaskell, W. H. 1898 A, 553.
 Gaskell, W. H. 1905 A, 41 ("amphibians").
 1910 A, 11 ("amphibians").
 Gaupp, E. 1891 B, 110 ("amphibien").
 1895 A, 57, seq. ("amphibien").
 1897 A, 543 ("amphibien").
 1898 B ("amphibien").
 1899 A, 1004, 1058, 1061 ("amphibien").
 1900 A ("amphibien").
 1901 B, 943 ("amphibien").
 1902 A, 167 ("amphibien").
 1905 A, 277 ("amphibien").
 1905 C, 130 ("amphibien").
 1905 D, 931 ("amphibien").
 1905 E, 160 ("amphibien").
 1906 A, 32 ("amphibien").
 1906 B, ("amphibien").
 1908 C, ("amphibien").
 1910 B, 355, 370 ("amphibien").
 1910 C, 425 ("amphibien").
 1910 D, 87 ("amphibien").
 1911 A, 418 ("amphibien").
 1911 B, 93, 113 ("amphibien").
 1911 C, 436 ("amphibien").
 1912 A, 561 ("amphibien").
 1912 B, 218 ("amphibien").
 1913 A, ("amphibien").
 Gebhardt, F. A. M. W. 1907 A, 77 ("amphibien").
 Gegenbaur, C. 1862 A, 179 ("amphibien").
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 1866 A, 122, 123 ("amphibien").
 1867 A, 57 ("amphibien").
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 1870 A, 335 ("amphibien").
 1870 C, 398 ("amphibien").
 1880 A, 586 ("amphibien").
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 Giebel, C. G. 1855 A, 98 (Batrachia).
 Gill, T. 1873 E, 435 (Batrachia).
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 1898 A, 697 ("amphibians").
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 Goodrich, E. S. 1916 A, 261.
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 Goodsir, J. 1857 A.
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 Greene, J. R. 1861 A, 219, 226 (Batrachia).
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 1912 D, 220.
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 1927 G, 268 ("amphibians").
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- Gregory and Noble 1924 A, 436 ("amphibians").
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 Haeckel, E. 1868 A, 436, 448, 453.
 1893 A, xvi ("amphibien").
 Hanson, F. B. 1919 B, 66.
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 Harkness, R. 1852 A, 258 (Batraehiæ).
 Hase, A. 1913 A ("amphibien").
 Hasse, C. 1873 B, 629 ("amphibien").
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 1892 C, 5 ("amphibien").
 Hasse and Sehwarek 1870 A, 34 ("amphibien").
 Hatschek, B. 1889 A, 83 ("amphibien").
 1889 B, 114 ("amphibien").
 Hay, O. P. 1897 B, 774 (Batraehia).
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 Heilprin, A. 1887 A, 45, 305.
 Hertwig, O. 1874 B ("amphibien").
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 Hilzheimer, M. 1913 A, 473 ("amphibien").
 Hoeven, J. v. d. 1866 A, 363 (Batraehia).
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 1864 C, 360, 372 ("amphibiens").
 Howes, G. B. 1891 A, 156.
 1893 B, 268.
 1893 C, 587.
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 1902 A, 525 (Batrachia).
 Howes and Swinnerton 1901 A, 2, 46, 69 (Batraehia).
 Hubreeht, A. A. W. 1897 A, 29.
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 Huene, F. 1907 A, 152-154 ("amphibien").
 1908 H, 157-175 ("amphibien").
 1910 F, 148-163 ("sauropsiden").
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 1912 D, 102 ("amphibien").
 1912 F, 524 ("amphibien").
 1922 G, 456 ("amphibien").
 1926 A, 262.
 Humphry, G. M. 1876 A, 668 ("batrachians").
 Huxley, T. H. 1859 D, 401.
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 Ihering, H. 1880 A, 303 ("amphibien").
 Iwanzoff, N. 1894 A, 578 ("amphibien").
 Jaebshagen, E. 1920 A, 91 ("amphibien").
 Jaekel, O. 1901 B, 53 ("amphibien").
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 1903 F, 33, 46 ("amphibien").
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 Jaekel, O. 1912 A, 610 ("amphibien").
 1913 A, 89 ("amphibien").
 1927 A, 259 ("amphibien").
 Jaekel and Philippi. 1903 A, 13 ("amphibien").
 Jordan, D. S. 1898 A, 176 (Batraehia).
 1905 A, i, 600; ii, 556.
 1907 B, 226.
 Juhn, M. 1923 A, 70 ("amphibien").
 Julien, A. 1894 A, 174 ("batrachiens").
 Kapelkin, W. 1900 A, 433 ("amphibien").
 Kehrer, F. A. 1896 A, 347 ("amphibien").
 Keith, A. 1911 A, 294.
 Kellieott, W. E. 1905 A, 137.
 Kerbert, C. 1876 A, 207 ("amphibien").
 Kerr, J. G. 1908 A, 169.
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 Kesteven, H. 1916 A, 303.
 1919 A, 223.
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 Kingsbury, B. F. 1895 A, 115.
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 Kingsley, J. S. 1894 A, 640 (Batraehia).
 1896 A, 147 ("batraehians").
 1900 A, 205.
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 1912 A, 185 ("amphibians").
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 1925 A, 13, 36, 39, 41, 52, 119, 246, 262, 279.
 Klaatsch, H. 1893 B, 651 ("amphibien").
 Klaauw, C. J. 1924 B, 573.
 Klein, E. F. 1868 A ("amphibien").
 Klintz, J. H. 1911 A, 165 ("amphibien").
 Koken, E. 1898 B, 142.
 Köstlin, O. 1844 A ("batrachier").
 Kothe, K. 1910 A, 55 ("amphibien").
 Kravetz, L. 1906 A, 6 ("amphibien").
 1911 A, 333 ("amphibien").
 Kressmann, M. 1912 A, 428 ("amphibien").
 Kupffer, C. 1893 A, 525 ("amphibien").
 Laaser, P. 1903 A, 571 ("amphibien").
 Lakjer, T. 1927 A, 191, 298 ("amphibien").
 Larger, R. 1913 A, 702 ("amphibies").
 Lavocat, A. 1885 A, 33 ("amphibiens").
 1889 A, 43 ("amphibiens").
 Lebedinsky, N. G. 1917 A, 316 ("amphibien").
 Leche, W. 1887 A ("amphibien").
 Le Damany, P. 1902 A, 337 ("batraciens").
 1903 B, 275 ("batraciens").
 1903 G, 127 ("batraciens").
 1906 B, 158 ("batraeiens").
 Lemoine, V. 1889 A, 233 ("batraciens").
 Leunis and Ludwig 1883 A, 599.
 Leydig, F. 1873 B, 32.
 1887 A, 534 ("batrachier").
 1890 A, 441, 448 ("amphibien").
 Lobley, J. L. 1908 A, 198.
 Luboseh, W. E. 1907 A, 614 ("amphibien").
 1908 A, 193 ("amphibien").
 1911 A, 325 ("amphibien").
 1911 B, 741, 748 ("amphibier").
 Lull, R. S. 1904 C, 2.
 1910 D, 153.
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- Lydekker, R. 1903 D, 75.
 Malbranc, M. 1875 A ("amphibien").
 Mantell, G. A. 1844 A, 782 ("batrachians").
 Marsh, O. C. 1899 C, 71 ("amphibians").
 Matthes, E. 1921 A, 222 ("amphibien").
 Matthew, W. D. 1911 D, 197 ("amphibians").
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 Mead, C. S. 1904 A, 53 ("amphibians").
 Meckel, J. F. 1825 A ("batrachier").
 Meunier, S. 1903 A, 775 ("batraciens").
 Miner, R. W. 1925 A, 148, 186.
 Mivart, St. G. 1871 B, 374.
 Montgomery, T. H. 1901 A, 21733 ("amphibians").
 Moodie, R. L. 1908 B, 361.
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 1922 B, 320, fig. 1.
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 Müller, J. 1832 A, 508 (A. nuda).
 Nauck, E. T. 1923 A, 2 ("amphibien").
 Noble, G. K. 1925 B, 1.
 1926 A, 1.
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 Noordenbos, W. 1905 B, 390 ("amphibien").
 Nopcsa, F. 1926 A, 655.
 Osborn, H. F. 1899 J, 415.
 1905 N, 236.
 1916 E, 511, 602.
 1917 B, 307.
 1926 C, 339 ("amphibians").
 Oswald, F. 1911 A, 405.
 Owen, R. 1842 F, 83 ("batrachians").
 1848 B (Batrachia).
 Packard, A. S. 1904 A, 221 ("amphibians").
 Paramore, R. H. 1910 A, 1394.
 Parker, W. K. 1877 B, 529.
 1887 B, 53.
 1890 A, 62.
 Parker and Haswell 1897 A, 245, 271.
 Parsons, F. G. 1903 A, 323.
 Perrier, E. 1920 A ("batraciens").
 Peter, K. 1898 A ("amphibien").
 Peters, W. 1867 A, 726 ("batrachier").
 1868 B, 388.
 Petronievics, B. 1921 A, 107 ("amphibiens").
 Pfeiffer, H. 1854 A, 46 ("batrachier").
 Pompeckj, J. F. 1912 A, 338.
 Pycraft, W. P. 1909 A, 204.
 Rabl, C. 1901 A, 520 ("amphibien").
 1903 A, 155, 184 ("amphibien").
 Raymond, P. E. 1907 A, 835 ("amphibians").
 Reed, H. D. 1920 A, 325.
 Reichert, K. B. 1837 A, 139 ("amphibien").
 1849 A, 477, 494 ("amphibien").
 Retterer, E. 1908 A, 486 ("amphibiens").
 Reynolds, S. H. 1897 A, 133-188.
 Rice, E. L. 1920 A.
 Röse, C. 1897 A, 60 ("amphibien").
 Rohon, J. V. 1902 A, 25 ("amphibien").
 Romer, A. S. 1922 B, 523.
 1924 A, 123, figs. 2, 3.
 Ryder, J. 1885 E, 91 ("amphibians").
 Sabatier, A. 1897 A, 806 ("amphibiens").
 1902 A, 99 ("amphibiens").
 Sagemehl, M. 1883 A ("amphibien").
 Schauinsland, H. 1906 A, 487 ("amphibien").
 Schlosser, M. 1898 D, 120 ("amphibien").
 1903 G, 145.
 Schmalhausen, J. J. 1907 A, 177 ("amphibien").
 1908 A, 337 ("amphibien").
 1916 B, 138.
 1917 A, 102.
 1923 B, 544 ("amphibien").
 Schöne, G. 1902 A, 8 ("amphibien").
 Schuchert, C. 1915 A, 754, 797.
 Schuchert and Barrell 1914 A, 25 ("amphibians").
 Schuchert and Levene 1927 A, 289 ("amphibians").
 Scott, W. B. 1917 A, 33, 144, 155.
 Sedgwick, A. 1894 A, 52.
 Seeley, H. G. 1872 B, 22.
 1887 D, 338.
 1888 I, 235.
 1900 A, 281.
 Semon, R. 1898 A, 100 ("amphibien").
 1901 A, 180 ("amphibien").
 Serres, M. 1852 A, 144 ("batraciens").
 Sewertzoff, A. 1896 A, 207.
 1897 A, 410 ("amphibien").
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 1926 A, 507.
 1926 D, 76 ("amphibien").
 Seydel, O. 1899 A ("amphibien").
 Shitkov, B. M. 1899 A, 256 ("amphibien").
 Shore, T. W. 1887 A, 364.
 Sirena, S. 1872 A, 125 ("amphibien").
 Sixta, V. 1899 A, 329 ("amphibien").
 1901 A, 326 ("amphibien").
 1905 A, 674 ("amphibien").
 Smith, G. E. 1911 A, 293.
 1912 A, 426.
 Sollas, W. J. 1916 A, 110.
 Sonies, F. 1907 A, 432 ("amphibien").
 Spencer, W. B. 1886 A, 173, 220.
 Steiner, H. 1921 A, 513 ("amphibien").
 Stejneger, L. 1904 A, 924.
 1907 A, 1.
 Stejneger and Barbour 1917 A, 5.

- Steinmann, G. 1907 A, 421.
 1908 A, 207 ("amphibien").
 Stephan, P. 1900 A, 361 ("batrachiens").
 Strecker, C. 1887 A, 303 ("amphibien").
 Stromer, E. 1912 A, 54.
 Sutton, J. B. 1884 A, 570 ("amphibian").
 Taschenberg, O. 1894 A, 3506-3575.
 Terra, P. 1911 A, 137, 222 ("amphibien").
 Thevenin, A. 1906 A, 145 ("amphibiens").
 1909 A, 1223 ("amphibiens").
 1910 A, 60 ("amphibiens").
 Thyng, F. W. 1906 A, 45.
 Tomes, C. S. 1875 A, 93 (Batrachia).
 Tornier, G. 1894 A, 96 ("amphibien").
 1894 B, 104 ("amphibien").
 Traquair, R. H. 1900 C, 506.
 Van Gelderen, C. 1925 A, 501 ("amphibien").
 Van Wijhe, J. W. 1922 A, 293 ("amphibien").
 Vanhöffen, E. 1891 A, 134 ("amphibien").
 Veit, O. 1916 A, 375 ("amphibien").
 Versluys, J. 1903 A, 167 ("amphibien").
 1912 B, 552 ("amphibien").
 1912 C, 313.
 Vialleton, L. 1917 A, 191 ("amphibiens").
 Villiers, C. G. S. 1922 A ("amphibien").
 Vitali, G. 1909 A, 208 ("anfibi").
 Voit, M. 1923 A, 69 ("amphibien").
 Wagner, R. 1843 A, 146 (Batrachia).
 Wallae, A. R. 1876 A, i, 489; ii, 559.
 Wamich, P. 1913 A, 18 ("amphibien").
 Watson, D. M. S. 1913 D, 25 ("amphibians").
 1914 I, 532.
 1916 C, 632.
 1916 E, 85.
 1917 A, 981.
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 1919 A, 287.
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 1925 A, 820, 848, 850.
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 Wegner, R. N. 1922 A, 413 ("amphibien").
 Weidenreich, F. 1922 A, 45 ("amphibien").
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 Werner, F. 1904 A, 332 ("batrachier").
 Wiedersheim, R. 1892 A, 46 ("amphibien").
 Wilder, B. 1897 A, 295.
 Williston, S. W. 1909 A, 393.
 1910 B, 71 ("amphibians").
 1912 E, 258.
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 1913 B, 625 ("amphibians").
 1914 A, 3 ("amphibians").
 1914 D, 410, 416 ("amphibians").
 1916 B, 194, 200.
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 1918 A, 75 ("amphibians").
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 Wintrebert, P. 1910 A, 178, 300, 419, 1081 ("amphibiens").
 1910 B, 78, 129, 172, 226 ("batrachiens").
 Woodward, A. S. 1898 E, 329.
 1904 D, 141.
 1910 B, 464 ("amphibians").
 1911 C, 46.
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 Woodward, H. 1878 A, 21.
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 Woodward and Sherborn 1891 A, 31.
 Wright, W. 1909 A, 672.
 Ziegler, H. E. 1901 A, 235 ("amphibien").
 1923 A, 67, fig. 4 ("amphibien").
 Zierler, F. E. 1905 A, 511 ("amphibien").
 Zittel, K. A. 1895 A, 306.
 1897 A, 128 ("amphibien").
 1901 A, 412 ("amphibians").
 Zittel and Broili 1911 A, 143.
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 Zittel, Eastman, etc. 1902 A, 114.
 Zwick, W. 1897 A, 62.

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Haeckel, E. 1866, Gen. Morphol.
 Gadow, H. 1898 A, 11.

Haeckel, E. 1868 A, 441, 448.
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Order STEGOCEPHALI Cope.

- Hay, O. P. 1902 A, 409.
 Abel, O. 1908 D (208), ("stegocephalen").
 1909 F, 455 ("stegocephalen").
 1910 B (185, 186), ("stegocephalen").
 1912 F, 212, 384, 414, 702.
 1919 A, 233, fig. 251 (Stegocephalia).
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 1921 A, 144, 246, 252 ("stegocephalen").
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 Allis, E. P. 1898 A, 443.
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 1919 B, 82.
 1923 A, 48, 49.
 Amalitsky, V. P. 1924 A, 62 (Stegocephalia).
 1924 B, 67 (Stegocephalia).
 Anthony, R. 1912 A ("stégocephales").
 1913 A, 243, 269 ("stégocephales").
 Arltdt, T. 1907 D, 683.
 1907 E, 204 (Stegocephala).
 Arltdt, T. 1909 B, 353 ("stegocephalen").
 1916 A, 96 ("stegocephalen").
 Arthaber, G. 1910 A, 552 ("stegocephalen").
 Bardeleben, K. 1901 A, 37 ("stegocephalen").
 1907 A, 36 ("stegocephalen").
 1907 B, 154 ("stegocephalen").
 Bluntsehli, H. 1912 B, 380 ("stegocephalen").
 Boas, J. E. V. 1914 B, 553 ("stegocephalen").
 1914 C, 240 ("stegocephalen").
 Bogoljubsky, S. 1914 A, 661 (Stegocephala).
 Boulenger, G. A. 1901 B, 401 (Stegocephalia).
 1902 F, 382 (Stegocephalia).
 1904 C, 479 (Stegocephala).
 1917 C, 457 ("stégocéphales").
 Brauns, D. 1890 A, 161.
 Braus, H. 1906 A, 246 ("stegocephalen").
 Broili, F. 1904 A, 7, 105 ("stegocephalen").
 1904 D, 578 ("stegocephalen").
 1905 A, 12 ("stegocephalen").

- Broili, F. 1908 D, 235 ("stegocephalen").
 1917 A, 564 ("stegocephalen").
 1926 A ("stegocephalen").
- Broom, R. 1903 B, 499 ("stegocephalians").
 1904 B, 90 (Stegocephalia).
 1908 A, 1049 (Stegocephalia).
 1909 B, 162.
 1910 C, 475 ("stegocephalians").
 1913 B, 465 ("stegocephalian").
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 1917 A, 976, 977 ("stegocephs").
 1922 A, 23 ("stegocephalians").
- Case, E. C. 1911 B, 14, 15.
 1915 A, 96.
 1921 D, 338 ("stegocephalians").
 1924 B, 7.
- Cope, E. D. 1885 DD, 305.
 1891 N, 28.
- Credner, H. 1882 B, 1 ("stegocephalen").
 1893 A, 639 ("stegocephalen").
- Cunningham and Boulenger 1912 A, 159, 168, 170.
- Dabelow, A. 1926 A, 96 ("stegocephalen").
- Dames, W. 1899 B, 365.
- Davidson, A. 1895 A, 407.
- Depéret, C. 1912 A, 703 ("stégocephales").
- Döderlein, L. 1900 A, 329 ("stegocephalen").
- Dollo, L. 1884 D, 86.
- Drevermann, F. 1920 A ("stegocephalen").
- Du Toit, R. J. 1911 A, 420 (Stegocephalia).
- Eggeling, H. 1906 A, 107 ("stegocephalen").
- Eimer, G. H. T. 1901 A, 63 ("stegocephalen").
- Emery, C. 1901 A, 672 ("stegocephalen").
- Fejérváry, G. J. 1921 C, 11 ("stegocephalen").
- Frassetto, F. 1915 A ("stegocephali").
- Fuchs, H. 1908 B, 589 ("stegocephalen").
 1909 B, 113 ("stegocephalen").
 1909 C, 87 ("stegocephalen").
 1909 D, 29 ("stegocephalen").
 1910 A, 45 ("stegocephalen").
 1911 B, 398 ("stegocephalen").
 1912 B, 89 ("stegocephalen").
 1920 A (Stegocephalia).
- Fürbringer, M. 1902 A, 215 ("stegocephalen").
 1904 A ("stegocephalen").
- Geinitz and Deichmüller 1882 B, 13 ("stegocephalen").
- Gadow, H. 1901 B, 78 (Phractamphibia).
 1902 B, 359 (Stegocephala).
- Gaupp, E. 1895 A, 56, seq. ("stegocephalen").
 1905 D, 932 ("stegocephalen").
 1906 A, 56 ("stegocephalen").
 1910 A, 535 ("stegocephalen").
 1912 A, 562 ("stegocephalen").
 1913 A, 88 (Stegocephalia).
- Gebhardt, F. A. M. W. 1907 A, 82 ("stegocephalen").
- Gill, T. 1898 A, 697 ("stegocephals").
- Goodrich, E. S. 1924 A, 935 (Stegocephala).
- Gregory, W. K. 1913 D, 806 (Stegocephalia).
 1913 E, 4 ("stegocephalians").
 1915 D, 322, 334, 365.
 1920 A, 221.
 1922 A, 10 ("stegocephs").
- Gregory and Adams 1915 A, 763 ("stegocephalians").
- Hase, A. 1907 A, 656 ("stegocephalen").
- Heilmann, G. 1926 A, 207 ("stegocephalians").
- Heilprin, A. 1857 A, 310 (Stegocephala).
- Hilzheimer, M. 1913 A, 474 ("stegocephalen").
- Hommes, J. H. 1924 A, 36 (Stegocephalia).
- Howes, G. B. 1902 A, 525 (Stegocephala).
- Howes and Swinnerton 1901 A, 2, 3, 54, 69, 70 (Stegocephalia).
- Hubrecht, A. A. W. 1897 A, 30.
- Huene, F. 1909 D, 325 ("stegocephalen").
 1911 B, 398 ("stegocephalen").
 1912 D, 102 ("stegocephalen").
 1913 G, 501 ("stegocephalen").
 1920 F, 533 ("stegocephalen").
 1922 G, 395-460 ("stegocephalen").
- Jaekel, O. 1901 B, 53 ("stegocephalen").
 1902 A, 107 ("stegocephalen").
 1902 D, 127 ("stegocephalen").
 1903 A, 133 ("stegocephalen").
 1903 F, 28, fig. 1 (Stegocephala).
 1904 B ("stegocephalen").
 1904 C, 185 ("stegocephalen").
 1905 B, 61 ("stegocephalen").
 1905 C, 144 ("stegocephalen").
 1906 A, 28 ("stegocephalen").
 1908 A, 140 ("stegocephalen").
 1909 A, 194.
 1913 A, 86 ("stegocephalen").
 1916 A, 175 ("stegocephalen").
 1921 A, 222 ("stegocephalen").
 1922 A, 1 (Hemispondyla, Miosauria).
- Kehrer, F. A. 1896 A, 353 ("stegocephalen").
- Kingsley, J. S. 1900 B, 167 ("stegocephals").
 1901 A, 204.
 1901 B, 338 ("stegocephalians").
 1902 B, 333 ("stegocephals").
 1925 A, 36, 121, 279.
- Klaatsch, H. 1890 A, 232 ("stegocephalen").
- Koken, E. 1893 B, 240, 269 ("stegocephalen").
- Lakjer, T. 1927 A ("stegocephalen").
- Lucas, F. A. 1902 B, 119.
- Lull, R. S. 1917 B, 487 (Stegocephalia).
 1924 A, chart (Stegocephalia).
- Lydekker, R. 1903 D, 75 (Stegocephalia).
- Matthew, W. D. 1908 D, 816 (Stegocephalia).
 1915 A, 185, 294 (Stegocephalia).
- Mayhew, R. L. 1924 A, 317 (Stegocephalia).
- Miner, R. W. 1925 A, 148 (Stegocephalia).
- Mollier, S. 1897 A, 3 ("stegocephalen").
- Moodie, R. L. 1908 B, 373 (Stegocephala).
 1908 G, 512, fig. 1 (Stegocephalia).
 1909 C, 118, 119, 123 (Stegocephala).
 1909 D, 243 (Stegocephala).
 1909 F, 220 (Stegocephala).
 1911 C, 380 (Stegocephalia).
 1912 D, 326 (Stegocephala).
 1913 A, 183.
 1915 G, 371 (Stegocephalia).
- Nauek, E. T. 1923 A, 2 ("stegocephalen").
- Nopcsa, F. 1923 E, 1047, 1052.
 1926 A, 635 (Stegocephalia).
- Osborn, H. F. 1903 H, 457, 506.
 1904 M, 257 (Stegocephala).
- Pehrson, T. 1922 A, 53 ("stegocephals").
- Perrier, E. 1920 A, 281 ("stégocéphales").
- Perrin, A. 1889 A, 521 ("stégocéphales").
- Petronievics, B. 1921 A, 105 ("stégocéphales").
- Pompeckj, J. F. 1912 A, 338, 346 ("stegocephalen").

- Puccioni, N. 1908 A, 56 ("stegocephali").
 Rabl, C. 1903 A, 166, 180 ("stegocephalen").
 Romer, A. S. 1922 B, 519, 523 (Stegocephalia).
 Schmalhausen, J. J. 1916 B, 147 ("stégocéphales").
 1917 A, 106 (Stegocephalia).
 1917 B, 134 (Stegocephalia).
 Schuchert, C. 1914 B, 279 (Stegocephalia).
 1915 A, 802.
 Schwartz, H. 1908 A, 315 ("stegocephalen").
 1908 B, 63 ("stegocephalen").
 Sewertsoff, A. N. 1908 A, 359, 363 (Stegocephala).
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 Smith, G. E. 1911 A, 294 (Stegocephalia).
 1912 A, 427 (Stegocephalia).
 Sollas, W. J. 1916 A, 115.
 Steiner, H. 1921 A, 534 ("stegocephalen").
 1922 A, 340 ("stegocephalen").
 Steinmann, G. 1907 A, 421 (Stegocephala).
 1908 A, 206 ("stegocephalen").
 Stensiö, E. A. 1921 A, 142 ("stegocephalians").
 Sterling, S. 1938 A, 166, 180 ("stegocephalen").
 Stremme, H. 1909 A, 504 ("stegocephalen").
 Stromer, E. 1912 A, 57 (Stegocephali); 60 (Labyrinthodontii).
 1913 A, 61 ("stegocephalen").
 Suschkin, P. 1910 A, 250 (Stegocephala).
 Terra, P. 1911 A, 225 (Stegocephala).
 Thevenin, A. 1909 A, 1223 ("stégocéphales").
 1910 A, 4 (stégocéphales").
 Thyng, F. W. 1906 A, 43 (Stegocephala).
 Tims, H. W. M. 1903 A, 132 (Stegocephala).
 Versluys, J. 1912 B, 575 ("stegocephalen").
 Villiers, C. G. S. 1922 A, 172, 218 (Stegocephalia).
 Watson, D. M. S. 1912 A, 1 (Stegocephalia).
 Watson, D. M. S. 1912 B, 586 (Stegocephalia).
 1913 C, 341 (Stegocephalia).
 1913 D, 24 (Stegocephalia).
 1913 F, 957 (Stegocephalia).
 1914 A, 310.
 1914 C, 396 (Stegocephalia).
 1914 D, 167 (Stegocephalia).
 1914 F, 780 (Stegocephalia).
 1916 E, 83 (Stegocephalia).
 1917 A, 983 ("stegocephs").
 1919 B, 2 (Stegocephalia).
 Wegner, R. N. 1922 A, 464.
 Wilckens, O. 1911 A, 708 ("stegocephalen").
 Williston, S. W. 1904 B, 178.
 1908 B, 396.
 1909 A, 394.
 1910 E, 540.
 1914 A, 2 (Stegocephalia).
 1916 B, 200 (Stegocephalia).
 1918 A, 75.
 1925 A, 31, 91, 96, 99, 119, 122, 126, 132 (Stegocephalia).
 Wills, L. J. 1916 A, 5 (Stegocephalia).
 Wiman, C. 1910 A, 34 ("stegocephalen").
 1915 A, 1 ("stegocephalen").
 1916 D, 413 ("stegocephalians").
 Wintrebert, P. 1910 A, 1081 ("stégocéphales").
 1910 B, 79 ("stégocéphales").
 Woodward, A. S. 1897 C, 371 (Labyrinthodontia).
 1909 A, 324 (Stegocephalia).
 1910 B, 464 (Stegocephalia).
 1911 C, 46 (Stegocephalia).
 1922 B, 27, 29 (Stegocephalia).
 Zittel and Broili 1911 A, 147.
 1923 A, 161.
 Zittel, Eastman, etc. 1902 A, 117 (Stegocephalia).

Suborder BRANCHIOSAURIA.

- Hay, O. P. 1902 A, 410 (Microsauria, part).
 Abel, O. 1912 F, 219 ("branchiosaurier").
 1919 A, 294 (Phyllospondyli).
 Arltdt, T. 1907 D, 662 (Lepospondyli).
 1916 A, 97 ("branchiosaurier").
 Boulenger, G. A. 1901 B, 401.
 1902 F, 383.
 Broili, F. 1904 A, 26 (Lepospondyli).
 1908 E, 298 (Lepospondyli).
 Bullman, O. M. B. 1928 A, 250 ("branchiosaurs").
 Day, H. 1915 A, 430.
 Frassetto, F. 1915 A, 29.
 Fuchs, H. 1909 B, 149 (Branchiosauroi).
 1909 D, 55 ("branchiosaurier").
 Gadow, H. 1901 B, 80 (Branchiosauroi, Lepospondyli).
 Gregory, W. K. 1915 D, 365.
 Huene, F. 1913 G, 501 ("branchiosaurier").
 1926 A, 262.
 Jaekel, O. 1909 A, 194 (Lepospondyli); 204 (Branchiosauroi).
 1911 A, 109 (Branchiosauroi).
 1922 A, 3 (Branchiosauroi).
 Lohest, M. 1888 B, cxx ("amphibien").
 Lydekker, R. 1909 C, 469.
 1910 F, 672.
 Moodie, R. L. 1908 B, 363, 373.
 Moodie, R. L. 1908 E, 566.
 1908 G, 516.
 1909 C, 118, 121.
 1909 E, 38, 39.
 1909 F, 220.
 1909 G, 362.
 1910 F, 234.
 1911 H, 243.
 1912 D, 324, 326.
 1912 E, 35.
 1915 F, 189, 190.
 1916 A, 4, 50 (Branchiosauroi); 75 (Lepospondyli).
 Pompeckj, J. F. 1912 A, 341, 342 ("branchiosaurier").
 Schwartz, H. 1908 A, 315 (Lepospondyla).
 Sollas, W. J. 1920 A, 526.
 Steinmann, G. 1907 A, 422 (Branchiosauroi).
 Stromer, E. 1912 A, 59 (Phyllospondyli).
 Thevenin, A. 1910 A, 4, 5 ("phyllospondyles").
 Watson, D. M. S. 1914 D, 171 ("branchiosaurs").
 1917 C, 169, 181 (Phyllospondylia, Lepospondylia).
 1919 C, 239.
 1921 C, 73 (Phyllospondyli).
 Williston, S. W. 1912 B, 657 (Lepospondyli).
 1912 E, 258 ("branchiosaurs").

- Williston, S. W. 1916 B, 209 (Lepospondyli).
 1925 A, 119.
 Wintrebert, P. 1910 A, 1081 ("branchiosauriens").
 1910 B, 226 (Branchiosaurus).
 Zittel and Broili 1911 A, 160 (Phyllospondyli).
 1923 A, 198 (Phyllospondyli).
 Zittel, Eastman, etc. 1902 A, 124 (Phyllospondyli).

PROTRITONIDÆ Lydekker.

- Nicholson and Lydekker* 1889 A, 1022, 1039.
 Hay, O. P. 1902 A, 410.
 Unless otherwise indicated the authors, as quoted, use for this family the name Branchiosauridæ, and for the genus *Protriton* the name *Branchiosaurus*.
 Abel, O. 1912 F, 213 (Branchiosaurus).
 1919 A, 295.
 Arltdt, T. 1907 D, 277.
 1908 A, 1.
 1912 A, 650, 658.
 Bulman and Whittard 1926 A, 536.
 Credner, H. 1882 B (Branchiosaurus).
 1882 C, 43 (Branchiosauridæ).
 1893 A, 683, 698, 703 (Branchiosauridæ).
 Deichmüller, J. V. 1884 A, 5, pl. i (Protriton).
 Eimer, G. H. T. 1901 A, 196 (Branchiosaurus).
 Fejérváry, G. J. 1920 A, 363.
 Fritsch, A. 1879 A, 720 (Protriton).
 1883 A, 69 (Branchiosauridæ).
 Fuchs, H. 1909 C, 87.
 1909 D, 29 (Branchiosaurus).
 1910 A, 45 (Branchiosaurus).
 Gaudry, A. 1875 A, 300 (Protriton).
 1875 E, 442 (Salamandrella).
 1876 A, 721 (Protriton).
 1878 A, 957 (Protriton).
 Gaupp, E. 1911 E, 406 (Branchiosaurus).
 Geinitz and Deichmüller 1882 B, 13, 30, 41 (Branchiosaurus).
 Gregory, W. K. 1911 A, 509 ("branchiosaurs").
 1915 D, 375, fig. 15 (Branchiosaurus).
 1917 B, 313, 316, 318.
 Huene, F. 1913 G, 502, figs. 1, 11, 19, 20 (Branchiosaurus); 505 (Branchiosauridæ).
 1920 C, 211.
 Jaekel, O. 1903 A, 119 (Branchiosaurus).
 1903 F, 32 (Branchiosaurus).
 1909 A, 204.
 Jaekel, O. 1909 B, 588, figs. 1, 2 (Branchiosaurus).
 1922 A, 2 ("branchiosauriden").
 1927 A, 259 ("branchiosauriden").
 Kesteven, H. L. 1919 A, 223, fig. 1 (Branchiosaurus).
 Kingsley, J. S. 1902 C, 333 (Branchiosaurus).
 Lakjer, T. 1927 A, 199, fig. 76 (Branchiosaurus).
 Moodie, R. L. 1909 E, 43 (Branchiosaurus).
 1910 A, 369.
 1910 C, 234.
 1911 C, 382.
 1912 D, 326.
 1915 F, 186.
 Noble, G. K. 1925 C, 7 ("branchiosaurs").
 Perrin, A. 1899 A, 521, figs. 1, 3 (Branchiosaurus).
 Perrier, E. 1920 A, 277 (Branchiosaurus).
 Schönfeld, G. 1911 A, 19, pls. i-iii (Branchiosaurus).
 Schwarz, H. 1908 A, 324 (Branchiosaurus).
 Seitz, A. L. L. 1907 A, 249 (Branchiosaurus).
 Stadtmüller, F. 1926 A, 159, fig. 5 (Branchiosaurus).
 Stappenbeck, R. 1905 A, 401 (Branchiosaurus).
 Steiner, H. 1921 A, 535 (Branchiosauridæ).
 Steinmann, G. 1908 A, 207 ("branchiosaurier").
 Thevenin, A. 1905 A, 1268 (Branchiosaurus).
 1906 A, 146 (Branchiosaurus).
 1909 A, 1223 (Protriton).
 1910 A, 5, 27 (Branchiosaurus).
 Thyng, F. W. 1906 A, 44, fig. C (Branchiosaurus).
 Watson, D. M. S. 1917 C, 170.
 1921 C, 72 (Branchiosaurus).
 Wintrebert, P. 1910 A, 1082.
 1910 B, 78, 172 ("protritonides").
 Woodward, A. S. 1898 E, 329 (Branchiosaurus).
 Zittel and Broili 1911 A, 160.
 Zittel, Eastman, etc. 1902 A, 124.

MICRERPETON Moodie. Type *M. caudatum* Moodie.

- Moodie, R. L.* 1909 E, 39.
 Arltdt, T. 1916 A, 98.
 Bulman and Whittard 1926 A, 578.
Moodie, R. L. 1908 G, 535.
 1912 D, 327, 330.
 1915 E, 463.
 1915 G, 369.
 1915 J, 322.
 1916 A, 51.
 Pompeckj, J. F. 1912 A, 342.
 Watson, D. M. S. 1917 C, 170.
 1921 C, 72.
 Zittel and Broili 1911 A, 162.
 1923 A, 199.
 Lydekker, R. 1910 F, 672.
 Miner, R. W. 1925 A, 171.
Moodie, R. L. 1908 B, 362, figs. 1, 3.
 1908 E, 564, fig. 4.
 1908 G, 516, figs. 4, 5.
 1909 C, 118.
 1910 A, 368.
 1910 C, 233.
 1911 H, 242, pl. ii, fig. 1.
 1912 A, 277.
 1912 D, 326, 330, 331.
 1914 A, 22.
 1915 J, 322.
 1916 A, 52, pl. ii; pl. xxv, fig. 4; text-fig. 13.
 Pennsylvanian (Mazon Creek); Illinois.

Micrerpeton caudatum Moodie.

Moodie, R. L. 1909 E, 38, 39, figs. 1-6.

EUMICRERPETON Moodie. Type *E. parvum* Moodie.

- Moodie, R. L. 1910 A, 369.
 Arltdt, T. 1916 A, 98.
 Bulman and Whittard 1926 A, 578.
 Gregory, W. K. 1917 B, 311.
 Moodie, R. L. 1912 D, 330.
 1915 E, 463.
 1916 A, 57.
 Osborn, H. F. 1917 B, 179, fig.
 Schuchert and Levene 1927 A, 290, fig.
 Watson, D. M. S. 1921 C, 72.

Eumicrerpeton parvum Moodie.

- Moodie, R. L. 1910 A, 369, figs. 1-4.
 1911 B, 429, fig. 1.
 1912 A, 277.
 1912 D, 326, 331, pl. iii, figs. 3, 4; pl. iv;
 pl. v, fig. 1; pl. vi, figs. 1, 2.
 1914 A, 19.
 1915 I, 146.
 1915 J, 323, figs. 5, 6.
 1916 A, 57, pl. iii, figs. 1, 2; pl. v, fig. 1;
 text-figs. 14, 15.
 Pennsylvanian (Mazon Creek); Illinois.

MAZONERPETON Moodie. Type *M. longicaudatum* Moodie.

- Moodie, R. L. 1912 D, 336.
 Bulman and Whittard 1926 A, 578.
 Moodie, R. L. 1916 A, 61, pl. v, fig. 2.
 Watson, D. M. S. 1921 C, 72.

Mazonerpeton costatum Moodie.

- Moodie, R. L. 1912 D, 326, 341, pl. ii, fig. 3;
 pl. viii, fig. 4; pl. ix, fig. 2; pl. x.
 1912 A, 278.
 1914 A, 22.

- Moodie, R. L. 1916 A, 63, pl. iv, fig. 3; text-
 fig. 15.
 Pennsylvanian (Mazon Creek); Illinois.

Mazonerpeton longicaudatum Moodie.

- Moodie, R. L. 1912 D, 326, 337, pl. iii, figs. 1.
 2; pl. vii, fig. 3; pl. x.
 1912 A, 278.
 1914 A, 22.
 1916 A, 61, pl. iii, figs. 5, 6; text-fig. 14a.
 Pennsylvanian (Mazon Creek); Illinois.

SPARODUS Fritsch. Type *S. validus* Fritsch.

- Hay, O. P. 1902 A, 411.
 Moodie, R. L. 1909 E, 40.
 1912 D, 326.
 The systematic relationships of this genus are
 in doubt.

Sparodus sp. indet.

- Hay, O. P. 1902 A, 411.
 Lambe, L. M. 1904 C, 19, 35, 45.
 Moodie, R. L. 1914 A, 26.
 1916 A, 66.
 Pennsylvanian (Joggins); Nova Scotia.

Suborder DIPLOCAULIA Moodie.

- Moodie, R. L. 1909 F, 220.
 Case, E. C. 1911 B, 90.
 Gregory, W. K. 1917 B, 316 (Euamphibia).
 Moodie, R. L. 1909 D, 243 (Euamphibia, in
 part; Diplocaulia).
 1909 F, 220 (Euamphibia, in part).
 1911 H, 243 (Euamphibia, in part).
 1912 A, 278 (Euamphibia, in part).

- Moodie, R. L. 1912 D, 326 (Euamphibia, in
 part).
 1912 E, 31.
 1915 F, 190.
 1915 H, 638.
 1916 A, 34, 46.
 Williston, S. W. 1916 B, 209 (Lepospondyli).

DIPLOCAULIDÆ Cope.

- Hay, O. P. 1902 A, 416.
 Arltdt, T. 1909 B, 354 ("diplocauliden").
 1912 A, 656.
 1916 A, 101, 143 ("diplocauliden").
 Broili, F. 1902 A, 539.
 1904 A, 26.
 1905 A, 14.
 Case, E. C. 1911 B, 14, 15, 79, 85.
 1915 A, 96.
 Huene, F. 1912 E, 472 ("diplocauliden").

- Huene, F. 1913 G, 505 (Nectridei).
 Gregory, W. K. 1917 B, 313.
 Moodie, R. L. 1913 A, 190.
 Watson, D. M. S. 1917 C, 170.
 Williston, S. W. 1909 D, 131.
 1910 D, 534.
 1912 B, 657.
 1916 B, 209.
 Zittel and Broili 1911 A, 165.
 1923 A, 202.

DIPLOCAULUS Cope. Type *D. salamandroides* Cope.

- Hay, O. P. 1902 A, 416.
 Abel, O. 1919 A, 231, 303, fig. 183.
 1920 A, 353.
 1921 A, 298.
 Anonymous 1912 A, 519.
 Arltdt, T. 1916 A, 101.

- Broili, F. 1902 A, 536, fig. 3.
 1904 A, 7, 26, 28, 48.
 1905 A, 13.
 1913 A, 98.
 1913 C, 529.
 1914 B, 166 (Batrachiderpeton a syn.?).

- Broom, R. 1903 B, 499.
1910 A, 214.
- Case, E. C. 1900 A, 722.
1908 C, 579.
1908 D, 567, figs. 12, 13.
1911 B, 14, 15, 79, 85.
1915 A, 111, 115, 125.
- Cummins, W. F. 1908 A, 745.
- Douthitt, H. 1917 B, 3-40, figs. 2-4, 6, 7.
Geol. Mag. 1912 A, 519.
- Gregory, W. K. 1917 B, 312, 316.
- Huene, F. 1912 E, 472.
1913 G, 503, fig. 3.
1919 A, 181.
1922 G, 447, 452.
- Jaekel, O. 1903 A, 117, 125, 126, figs. 5, 6.
1914 A, 209.
- Kingsley, J. S. 1925 A, 122, fig. 128.
- Lakjer, T. 1927 A, 192, 198, 205.
- Matthew, W. D. 1909 G, 93, figs. 3, 4.
- Mehl, M. G. 1912 C, 409.
1921 A, 48.
- Moodie, R. L. 1908 G, 520, 521.
1909 F, 220.
1911 C, 377.
1912 E, 31.
1913 A, 190.
1915 G, 372.
1915 J, 318.
- Neumayer, L. 1904 A, 121.
- Nopcsa, F. 1923 E, 1052, fig. 9.
- Osborn, H. F. 1902 B, 93, fig. 1.
1916 E, 613, figs. 24, 25.
1917 B, 179, 180, 182, figs.
- Romer, A. S. 1922 B, 557, 587, pl. xxxvii.
1925 B, 461.
- Sehuchert, C. 1910 A, 570.
- Sternberg, C. H. 1909 C, 227.
- Watson, D. M. S. 1913 F, 960.
1916 E, 86.
1917 C, 170.
1919 B, 58.
- Williston, S. W. 1909 D, 122.
1910 A, 271, pl. xv, fig. 7.
1910 F, 600.
1911 D, 379.
1913 B, 627.
1914 C, 59.
1915 A, 578.
1916 B, 210, fig. 52.
1917 A, 316.
1918 B, 110.
1925 A, 162.
- Zittel and Broili 1911 A, 165.
1923 A, 174, 202, figs. 271, 285, 308.
- Diplocaulus copei Broili.**
Broili, F. 1904 A, 21, pl. ii; pl. iii, figs. 1, 2.
1902 A, 536 (Name only).
- Case, E. C. 1911 B, 22, 79, pl. v, figs. 1, 2.
1915 A, 96.
- Douthitt, H. 1917 B, 4.
- Moodie, R. L. 1914 A, 17.
- Sternberg, C. H. 1909 C, 254, 255.
- Williston, S. W. 1909 D, 122.
1910 D, 534.
1918 B, 110.
Permian (Clear Fork); Texas.

Diplocaulus limbatus Cope.

- Hay, O. P. 1902 A, 416.
- Beede, J. W. 1907 A, 120, 139.
- Broili, F. 1904 A, 7, 24.
- Case, E. C. 1902 B, 63 (This species?).
1911 B, 17, 79, 85, 91, pl. i, text-fig. 1.
1915 A, 96.
- Cummins, W. F. 1908 A, 743.
- Douthitt, H. 1917 B, 4, 33, fig. 7.
- Huene, F. 1912 E, 472, figs. 1-3.
1913 B, 366, fig. 50.
- Moodie, R. L. 1911 C, 377.
1912 E, 32.
1914 A, 17.
- Williston, S. W. 1909 D, 122, pls. i-v.
1918 B, 110.
Permian (Clear Fork); Texas.

Diplocaulus magnicornis Cope.

- Hay, O. P. 1902 A, 416.
- Abel, O. 1919 A, 305, figs. 227, 228.
1920 A, 353, fig. 558.
- Beede, J. W. 1907 A, 119, 139.
- Broili, F. 1902 A, 537, figs. 1, 2, 3.
1904 A, 7, 8, pl. i; pl. iv, figs. 4-15; pl. v, figs. 1-4.
- Case, E. C. 1902 B, 63 (This species?).
1911 B, 18, 79, 88, 91, pls. ii, iii; pl. iv, fig. 1; pl. xii, fig. 3; text-figs. 2, 21-23.
1915 A, 96, 125, text-fig. 13.
- Cummins, W. F. 1908 A, 743.
- Douthitt, H. 1917 B, 4, 33, figs. 1, 5, 7.
- Gould, C. W. 1901 A, 339.
- Jaekel, O. 1911 A, 121, fig. 135.
- Moodie, R. L. 1908 E, 564, fig. 5.
1908 G, 521, figs. 9-10.
1912 E, 31, pls. i, ii.
1914 A, 17.
- Phillips, W. B. 1912 A, 38.
- Sternberg, C. H. 1903 E, 94.
1909 C, 240, 253, 255, fig. 34.
- Williston, S. W. 1902 N, 60 (D. magnicornis).
1909 D, 122.
1918 B, 110.
Permian (Clear Fork); Texas.

Diplocaulus primigenius Mehl.

- Mehl, M. G. 1921 A, 48, figs. 1, 2.
Permian; Texas.

Diplocaulus pusillus Broili.

- Broili, F. 1904 A, 24, pl. vi, figs. 1-4.
- Broili, F. 1902 A, 536 (Name only).
1913 A, 100.
- Case, E. C. 1911 B, 22, 79, 85, text-fig. 3.
1915 A, 96, 131.
- Douthitt, H. 1917 B, 4, 34.
- Moodie, R. L. 1914 A, 17.
- Williston, S. W. 1909 D, 122.
1910 D, 534.
1918 B, 110.
Permian (Clear Fork); Texas.

Diplocaulus salamandroides Cope.

- Hay, O. P. 1902 A, 416.
- Beede, J. W. 1907 A, 139.
- Broili, F. 1902 A, 539.

- Broili, F. 1904 A, 7.
 Case, E. C. 1900 A, 710, pl. i, figs. 16, 17; pl. v, fig. 17.
 1902 B, 63.
 1911 B, 16.
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, figs. 21-23.
 Douthitt, H. 1917 B, 4, 33.
 Moodie, R. L. 1912 E, 38.
 Moodie, R. L. 1914 A, 17.
 Williston, S. W. 1909 D, 122.
 Pennsylvanian (Upper); Illinois: Permian (Wichita); Texas: (Enid); Oklahoma.
Diplocaulus sp. indet.
 Phillips, W. B. 1912 A, 41. Permian (Wichita); Texas.
 Wegeman, C. H. 1915 A, 26. Permian (Wichita); Oklahoma.

PLATYOPS Williston. Type *P. parvus* Williston.

- Williston, S. W. 1918 B, 110.
 Huene, F. 1922 G, 447.

Platyops parvus Williston.

- Williston, S. W. 1918 B, 110, fig. 19.
 Permian; Texas.

Suborder MICROSAURIA Cope.

- Hay, O. P. 1902 A, 410.
 Arltdt, T. 1907 D, 277 (Microsauridæ); 636 (Microsauria); 662 (Lepospondyli).
 1907 E, 204 ("aistopoden").
 1909 B, 354 ("microsaurier").
 1916 A, 96, 101, 143 ("mikrosaurier").
 Boulenger, G. A. 1901 B, 401.
 1902 F, 383.
 1904 C, 480.
 1917 C, 458 ("microsauriens").
 Broili, F. 1904 A, 26 (Lepospondyli).
 1908 E, 298 (Lepospondyli).
 1913 B, 520.
 Broom, R. 1904 C, 169.
 Carus, V. 1875 A, 485.
 Case, E. C. 1908 C, 578.
 1911 B, 14, 85.
 1915 A, 96.
 Cope, E. D. 1891 N, 28, 29 (Microsauri).
 Cunningham and Boulenger 1912 A, 174.
 Depéret, C. 1907 B ("microsauriens").
 Dawson, J. W. 1888 A, 393.
 Dollo, L. 1884 D, 91.
 Fürbringer, M. 1902 A, 217.
 Gadow, H. 1901 B, 288 (Microsauri); 80 (Lepospondyli); 81 (Aistopodes).
 1902 B, 359 (Microsauri).
 Goodrich, E. S. 1916 A, 263.
 Gregory, W. K. 1911 A, 509.
 1915 D, 365 (Microsauria, Aistopoda).
 1917 B, 318 (Microsauria, Aistopoda).
 Gregory, W. K. 1917 B, 312 ("microsaurs").
 1920 A, 224 ("microsaurs").
 Huene, F. 1912 E, 472 ("mikrosaurier").
 1912 F, 524 ("mikrosaurier").
 1913 G, 505.
 1920 C, 211.
 1926 A, 262 ("mikrosaurier").
 Jaekel, O. 1906 D, 189.
 1909 A, 194 (Lepospondyli); 194, 205, 209 (Microsauria); 209 (Aistopodi).
 1909 B, 599.
 1910 C, 324.
 1910 D, 123.
 1911 A, 117 (Microsauria); 119 (Aistopodi).
 1914 A, 203 ("mikrosaurier").
 Lydekker, R. 1912 C, 15.
 Mehl, M. G. 1912 C, 408.
 Miner, R. W. 1925 A, 172 ("microsaurs").
 Moodie, R. L. 1908 B, 363 (Microsauria, Aistopoda).
 1908 F, 253 (Microsauria, Aistopoda).
 1908 G, 512 (Microsauria); 516, 520 (Aistopoda).
 1909 B, 15 (Microsauria); 25 (Aistopoda).
 1909 C, 118, 120 (Microsauria, Aistopoda).
 1909 D, 243.
 1909 E, 38 (Microsauria), 39 (Aistopoda).
 1909 F, 216, 220 (Microsauria, Aistopoda).
 1909 G, 362.
 1910 F, 234.
 1911 C, 382.
 1911 H, 241 (Microsauria); 243 (Aistopoda).
 1912 D, 326, 327, 351 (Microsauria); 326 (Lepospondylia).
 1912 E, 35.
 1915 F, 190.
 1915 G, 373.
 1915 H, 636.
 1916 A, 4, 75, 76 (Microsauria); 75 (Lepospondylia); 5, 76 (Aistopoda a syn.).
 1928 B, 216.
 Nopcsa, F. 1923 H, 16, 135, 148.
 Perrier, E. 1920 A, 281 ("microsauriens").
 Pompeckj, J. F. 1912 A, 343, 346 ("microsaurier," "aistopoden").
 Romer, A. S. 1922 B, 523 (Lepospondyli).
 1925 B, 461 (Lepospondylia).
 Schwarz, H. 1908 A, 324 ("aistopoden"); 315 (Lepospondylia).
 1908 B, 67 (Aistopoda); 79 (Microsauria); 93 (Lepospondyla).
 Steinmann, G. 1908 A, 208 ("microsaurier").
 Stromer, E. 1912 A, 59 (Lepospondyli).
 Swinnerton and Howes 1901 A, 70.
 Thevenin, A. 1906 A, 161.
 1910 A, 39 ("aistopodes"); 40, 42 ("microsauriens").
 Watson, D. M. S. 1914 D, 171 ("microsaurs").
 Williston, S. W. 1908 B, 400.
 1909 A, 393 ("microsaurs").
 1909 D, 131.
 1910 D, 531.
 1910 F, 599 (Branchiosauria, Lepospondyli).
 1912 B, 655, 658 (Microsauria); 657 (Lepospondyli).
 1912 E, 258.
 1916 B, 209 (Lepospondyli).

Woodward, A. S. 1910 B, 464.
1911 C, 46.

Zittel and Broili 1911 A, 162 (Lepospondyli).
1923 A, 199 (Lepospondyli).
Zittel, Eastman, etc. 1902 A, 125 (Lepospondyli).

HYLONOMIDÆ Fritsch.

Hay, O. P. 1902 A, 412.
Abel, O. 1919 A, 309.
Cope, E. D. 1891 N, 30.
Gregory, W. K. 1917 B, 313, 318.
Huene, F. 1913 G, 505.
1926 A, 262.

Jaekel, O. 1909 A, 209.
1911 A, 66.
Moodie, R. L. 1916 A, 78.
Schwarz, H. 1908 B, 102 ("hylonomiden").
Zittel and Broili 1923 A, 199.
Zittel, Eastman, etc. 1902 A, 125 (Microsauridæ).

HYLONOMUS Dawson. Type *H. lyelli* Dawson.

Hay, O. P. 1902 A, 412.
Abel, O. 1919 A, 345.
Bell, W. A. 1913 A, 341.
Boulenger, G. A. 1902 F, 383, fig. 3.
Broili, F. 1908 F, 58.
1913 B, 520.
Case, E. C. 1908 C, 578.
Depèret, C. 1912 A, 704.
Gadow, H. 1901 B, 289.
1902 B, 359, 361.
Heilprin, A. 1887 A, 310.
Huxley, T. H. 1863 C, 571.
Lydekker, R. 1903 D, 75.
Moodie, R. L. 1911 C, 383.
1915 E, 463.
1916 A, 78.
Owen, R. 1876 E, 45.
Steiner, H. 1921 A, 537.
Thevenin, A. 1906 A, 161.
Williston, S. W. 1910 A, 267.
1911 B, 54.
1912 B, 657.
Zittel and Broili 1911 A, 162.
1923 A, 172, 199, fig. 266.
Zittel, Eastman, etc. 1902 A, 125.

Hylonomus latidens Dawson.

Hay, O. P. 1902 A, 412.
Lambe, L. M. 1904 C, 35, 45 (Hylonemus).
Moodie, R. L. 1914 A, 20.
1916 A, 80, pl. x.
Pennsylvanian (Joggins); Nova Scotia.

Hylonomus lyelli Dawson.

Hay, O. P. 1902 A, 412.
Bell, W. A. 1913 A, 343.
Broili, F. 1908 F, 58.
Lambe, L. M. 1904 C, 35, 45 (Hylonemus).
Mackie, S. J. 1863 F, 439.
Moodie, R. L. 1914 A, 20.
1916 A, 79, pl. ix.
Thevenin, A. 1906 A, 161.
1910 A, 42.
Zittel and Broili 1911 A, 162, fig. 288.
Zittel, Eastman, etc. 1902 A, 125, fig. 209.
Pennsylvanian (Joggins); Nova Scotia.

Hylonomus multidens Dawson.

Hay, O. P. 1902 A, 412.
Lambe, L. M. 1904 C, 35, 45 (Holonemus).
Moodie, R. L. 1914 A, 20.
1916 A, 80.
Pennsylvanian (Joggins); Nova Scotia.

Hylonomus wymani Dawson.

Hay, O. P. 1902 A, 412.
Bell, W. A. 1913 A, 343.
Broili, F. 1908 F, 59 (H. wymanni).
Lambe, L. M. 1904 C, 35, 45 (Holonemus).
Mackie, S. J. 1863 F, 439.
Moodie, R. L. 1914 A, 20.
1916 A, 80.
Pennsylvanian (Joggins); Nova Scotia.

SMILERPETON Dawson. Type *Hylonomus aciedentatus* Dawson.

Hay, O. P. 1902 A, 413.
Moodie, R. L. 1916 A, 81.

Smilerpeton aciedentatum Dawson.

Hay, O. P. 1902 A, 413.
Bell, W. A. 1913 A, 343 (Hylonomus).

Broili, F. 1908 F, 59 (Hylonomus).
Lambe, L. M. 1904 C, 35, 45.
Moodie, R. L. 1914 A, 26.
1916 A, 81, pl. xii, fig. 18.
Pennsylvanian (Joggins); Nova Scotia.

HYLERPETON Owen. Type *H. dawsonii* Owen.

Hay, O. P. 1902 A, 413.
Broili, F. 1908 F, 58.
Gadow, H. 1896 A, 28.
1902 B, 361.
Heilprin, A. 1887 A, 310.
Huxley, T. H. 1863 C, 571.
Moodie, R. L. 1912 D, 327.
1916 A, 82.

Hylerpeton dawsonii Owen.

Hay, O. P. 1902 A, 413.
Bell, W. A. 1913 A, 343.
Lambe, L. M. 1904 C, 35, 45.
Mackie, S. J. 1863 F, 439 (H. dawsoni).
Moodie, R. L. 1914 A, 19.
1916 A, 82, pl. vii (H. dawsoni).
Pennsylvanian (Joggins); Nova Scotia.

Hylerpeton intermedium Dawson.

- Hay, O. P. 1902 A, 413.
 Lambe, L. M. 1904 C, 35, 45.
 Moodie, R. L. 1914 A, 19.
 1916 A, 83.
 Pennsylvanian (Joggins) Nova Scotia.

Hylerpeton longidentatum Dawson.

- Hay, O. P. 1902 A, 413.
 Lambe, L. M. 1904 C, 35, 45.
 Moodie, R. L. 1914 A, 19.
 1916 A, 83, pl. xi.
 Pennsylvanian (Joggins); Nova Scotia.

FRITSCHIA Dawson. Type *Hylerpeton curtidentatum* Dawson.

- Hay, O. P. 1902 A, 413.
 Moodie, R. L. 1916 A, 84.

Fritschia curtidentata Dawson.

- Hay, O. P. 1902 A, 413.
 Lambe, L. M. 1904 C, 35, 45.
 Moodie, R. L. 1914 A, 19.
 1916 A, 84, pl. viii.
 Pennsylvanian (Joggins); Nova Scotia.

TUDITANIDÆ Cope.

- Hay, O. P. 1902 A, 415.
 Fritsch, A. 1883 A, 173 (Microbrachidæ).
 Gregory, W. K. 1917 B, 313, 318.
 Huene, F. 1913 G, 505 (Microbrachidæ).

- Moodie, R. L. 1911 H, 241.
 1916 A, 85.
 Schwarz, H. 1908 B, 91 (Microbrachidæ).

TUDITANUS Cope. Type *T. punctulatus* Cope.

- Hay, O. P. 1902 A, 415.
 Amalitsky, V. P. 1921 A, 4.
 1924 A, 52.
 Broili, F. 1904 A, 27.
 1908 F, 60.
 Case, E. C. 1917 A, 135.
 1919 B, 200.
 Cope, E. D. 1885 DD, 305.
 Gregory, W. K. 1915 D, 332.
 Huene, F. 1912 E, 472.
 Moodie, R. L. 1909 A, 347.
 1909 B, 15, 16.
 1916 A, 85.
 Schwarz, H. 1908 B, 91.

Tuditanus brevirostris Cope.

- Hay, O. P. 1902 A, 415.
 Moodie, R. L. 1909 A, 356, pl. lxiv, fig. 4.
 1914 A, 27.
 1916 A, 88.
 Pennsylvanian (Linton); Ohio.

Tuditanus longipes Cope.

- Hay, O. P. 1902 A, 415.
 Moodie, R. L. 1914 A, 27.
 1916 A, 89, fig. 20.
 Pennsylvanian (Linton); Ohio.

Tuditanus minimus Moodie.

- Moodie, R. L. 1909 E, 56, fig. 10.
 1909 B, 17, 23, pl. viii, fig. 2.
 1911 H, 242.
 1914 A, 27.
 1916 A, 91.
 Pennsylvanian (Cannelton); Pennsylvania.

Tuditanus punctulatus Cope.

- Hay, O. P. 1902 A, 415.
 Broili, F. 1904 A, 27.
 Pennsylvanian (Linton); Ohio.
 See *Isodectes* Cope.

Tuditanus walcotti Moodie.

- Moodie, R. L. 1909 B, 16, pl. vi, figs. 1, 2;
 pl. vii, figs. 1, 2.
 1910 A, 368.
 1914 A, 27.
 1915 A, 192.
 1916 A, 93, fig. 21.
 Villiers, C. G. S. 1922 A, 218.
 Pennsylvanian (Linton); Ohio.

ERPETOSAURUS Moodie. Type *Tuditanus radiatus* Cope.

- Moodie, R. L. 1909 A, 347, 348.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Hay, O. P. 1902 A, 415 (Tuditanus, in part).
 Moodie, R. L. 1909 F, 219.
 1916 A, 96, fig. 22.

Erpetosaurus acutirostris Moodie.

- Moodie, R. L. 1909 A, 349, pl. lxi, fig. 1.
 1914 A, 18.
 1916 A, 107, fig. 22.
 Pennsylvanian (Linton); Ohio.

Erpetosaurus minutus Moodie.

- Moodie, R. L. 1909 B, 21, pl. viii, fig. 1.
 1909 A, 347.
 1914 A, 18.
 1916 A, 104, pl. xx, fig. 1; text-fig. 22.
 Pennsylvanian (Cannelton); Pennsylvania.

Erpetosaurus obtusus (Cope).

- Hay, O. P. 1902 A, 415 (Tuditanus).
 Moodie, R. L. 1909 A, 347, 350, fig. 2.
 1914 A, 18.
 1916 A, 98.
 Pennsylvanian (Linton); Ohio.

Erpetosaurus radiatus (Cope).

Hay, O. P. 1902 A, 415 (Tuditanus).

Broili, F. 1904 A, 27 (Tuditanus).

Moodie, R. L. 1909 A, 347, pl. lxii, fig. 1.

1914 A, 18.

1916 A, 97, pl. xxv, fig. 1; text-fig. 22.

Pennsylvanian (Linton); Ohio.

Erpetosaurus sculptilis Moodie.

Moodie, R. L. 1909 E, 61, figs. 11, 12 (Tuditanus).

1909 A, 347.

1909 B, 22.

1914 A, 18.

1916 A, 105, pl. xviii, fig. 1.

Pennsylvanian (Cannelton); Pennsylvania.

Erpetosaurus tabulatus (Cope).

Hay, O. P. 1902 A, 415 (Tuditanus).

Moodie, R. L. 1908 G, 520, 522, fig. 8 (Tuditanus).

Moodie, R. L. 1909 A, 347; pl. lxii, fig. 2; text-fig. 1; 351, pl. lix, fig. 2; pl. lxiv, fig. 3 (This sp.?).

1909 B, 21.

1909 E, 52, figs. 8, 9 (Tuditanus).

1914 A, 18.

1915 B, pl. 1, fig. 1.

1916 A, 100, pl. xxv, fig. 2; text-fig. 22.

Pennsylvanian (Linton); Ohio.

Erpetosaurus tuberculatus Moodie.

Moodie, R. L. 1909 A, 348, pl. lviii.

1914 A, 18.

1916 A, 109, pl. xxvi, fig. 1.

Pennsylvanian (Linton); Ohio.

Erpetosaurus sp. indet.

Moodie, R. L. 1909 A, 352, pl. lxi, fig. 2. Carboniferous (Linton); Ohio.

ODONTERPETON Moodie. Type *O. triangularis* Moodie.

Moodie, R. L. 1909 B, 19.

Case, E. C. 1917 A, 135.

1919 B, 200.

Moodie, R. L. 1916 A, 110.

Odonterpeton triangularis Moodie.

Moodie, R. L. 1909 B, 19, pl. vi, fig. 3.

1909 F, 217.

1914 A, 23.

1916 A, 110, fig. 22.

Pennsylvanian (Linton); Ohio.

CROSSOTELIDÆ Williston.

Williston, S. W. 1909 D, 131.

Arldt, T. 1912 A, 656.

1916 A, 142 ("crossoteliden").

Case, E. C. 1911 B, 14.

1915 A, 97.

Moodie, R. L. 1912 E, 38.

Williston, S. W. 1910 D, 534.

1916 B, 210.

A family of somewhat uncertain position among the Microsauria.

CROSSOTELOS Case. Type *C. annulatus* Case.

Case, E. C. 1911 B, 14, 70.

1902 B, 63, 65.

1908 C, 579.

1915 A, 132.

Gregory, W. K. 1917 B, 312.

Moodie, R. L. 1911 C, 377.

Schuchert, C. 1910 A, 570.

Williston, S. W. 1909 D, 130.

1910 A, 271, 272, pl. xv, figs. 2, 3.

1910 D, 534.

1916 B, 211, fig. 53.

Crossotelos annulatus Case.

Case, E. C. 1902 B, 63, 65.

Beede, J. W. 1907 A, 139 (*C. annulata*).

Case, E. C. 1911 B, 70, text-figs. 18, 19.

1915 A, 97.

Moodie, R. L. 1914 A, 17.

Williston, S. W. 1910 D, 534.

Permian (Enid); Oklahoma.

STEGOPIDÆ Moodie.

Moodie, R. L. 1909 E, 79.

Gregory, W. K. 1917 B, 313, 317, 320.

Moodie, R. L. 1916 A, 112.

See the literature cited under *Keraterpeton*.STEGOPS Moodie. Type *Ceraterpeton divaricatum* Cope.

Moodie, R. L. 1909 E, 79.

Case, E. C. 1917 A, 135.

1919 B, 200.

Gregory, W. K. 1917 B, 320.

1920 A, 223.

Huene, F. 1912 E, 472.

1922 G, 447.

Moodie, R. L. 1916 A, 112.

Stegops divaricata (Cope).Hay, O. P. 1902 A, 414 (*Keraterpeton*).

Gregory, W. K. 1915 D, 337.

1920 A, 115, fig. 13.

Moodie, R. L. 1908 G, 520.

1909 E, 79, figs. 21, 22.

1914 A, 26.

1916 A, 113, pl. xxv, fig. 3, text-fig. 23.

Pennsylvanian; Ohio.

UROCORDYLIDÆ Lydekker.

- Lydekker, R.* 1889, in Nicholson and Lydekker 1889 A, 1025.
Hay, O. P. 1902 A, 414 (Ptyonidæ, part).
Arlt, T. 1909 B, 354 ("urocordyliden").
 1912 A, 650.
 1916 A, 142 ("urocordyliden," "diceratiden").
- Gregory, W. K.* 1917 B, 313, 317, 318.
Hancock and Atthey 1869 C, 182 (Urocordylus).
Huene, F. 1922 G, 446 (Nectridei).
Lydekker, R. 1890 A, 196.
Moodie, R. L. 1909 A, 357.
 1916 A, 115.

DICERATOSAURUS Jaekel. Type *Tuditanus punctolineatus* Cope.

- Jaekel, O.* 1903 A, 112.
Abel, O. 1919 A, 255, 299.
Arlt, T. 1909 B, 354 ("diceratosauriden").
Broili, F. 1904 A, 27.
 1926 A, 210.
Case, E. C. 1917 A, 134.
 1919 B, 200.
Gregory, W. K. 1917 B, 318.
Huene, F. 1912 E, 472.
 1922 G, 447, 453.
Jaekel, O. 1909 A, 196, 198, 210, fig. 1.
Lakjer, T. 1927 A, 192.
Moodie, R. L. 1909 A, 352, 357.
 1909 E, 63.
 1916 A, 115.
Nopcsa, F. 1923 E, 1052.
Stappenbeck, R. 1905 A, 402.
Watson, D. M. S. 1917 C, 170.
Williston, S. W. 1909 D, 122.
Zittel and Broili 1911 A, 164.
 See also the literature cited under *Keraterpeton*.
- Diceratosaurus lævis** Moodie.
Moodie, R. L. 1909 E, 63, figs. 13, 14.
 1914 A, 17.
 1915 B, pl. 1, fig. 2 (Erpetosaurus).
 1916 A, 120, fig. 24.
 Pennsylvanian (Linton); Ohio.
- Diceratosaurus punctolineatus** (Cope).
Hay, O. P. 1902 A, 414 (Keraterpeton).
Abel, O. 1919 A, 300, fig. 224.
Baird, S. F. 1876 A, cci (Ceraterpeton).
Broili, F. 1904 A, 27 (C. "lennicorne" a syn.).
 1926 A, 209, fig. 6.
Fuchs, H. 1909 B, 115, fig. 3.
 1920 A, 363.
Hay, O. P. 1902 A, 415 (Tuditanus mordax).
Jaekel, O. 1903 A, 112, pls. ii-v (Ceraterpeton reticorne a syn.).
 1903 F, 30, fig. 2.
 1909 B, 600, fig. 10.
 1911 A, 120, figs. 133, 134.
 1915 A, 101, 112, fig. 6.
Moodie, R. L. 1908 G, 536.
 1909 A, 356, pl. lxxv (D. punctolineatus);
 pl. lxxiv, fig. 2 (Tuditanus mordax).
 1909 B, 22, 25.
 1914 A, 17.
 1916 A, 116, pl. xiv, fig. 4; pl. xv; pl. xvi, figs. 1, 5; pl. xxii, fig. 5.
Newberry, J. S. 1874 G, 179 ("Keraterpeton").
Watson, D. M. S. 1913 F, 959.
 Pennsylvanian (Linton); Ohio.
- Diceratosaurus robustus** Moodie.
Moodie, R. L. 1909 E, 67, fig. 15.
 1909 A, 355, pl. lxxiii, fig. 2.
 1914 A, 17.
 1916 A, 122, fig. 24.
 Pennsylvanian (Linton); Ohio.

EOSERPETON Moodie. Type *Ceraterpeton tenuicorne* (Cope).

- Moodie, R. L.* 1909 E, 76.
Case, E. C. 1917 A, 134.
 1919 B, 200.
Huene, F. 1912 E, 472.
 1922 G, 447.
Moodie, R. L. 1909 A, 355, pl. lxxiii, fig. 1.
 1916 A, 123.
 See also the literature cited under *Keraterpeton*.
- Eoserpeton tenuicorne** (Cope).
Hay, O. P. 1902 A, 414 (Keraterpeton).
- Broili, F.* 1904 A, 27 (Ceraterpeton "lennicorne," syn. of C. punctolineatum).
Gregory, W. K. 1917 B, 319.
Jaekel, O. 1903 A, 112 (C. "reticorne," syn. of Diceratosaurus punctolineatus).
Merrill, G. P. 1907 A, 12 (Keraterpeton).
Moodie, R. L. 1909 A, pl. lxxiii, fig. 1.
 1909 B, 23.
 1909 E, 76, fig. 20.
 1914 A, 18.
 1916 A, 123, fig. 25.
Woodward, A. S. 1897 D, 298 (Keraterpeton).
 Pennsylvanian (Linton); Ohio.

KERATERPETON Huxley. Type *K. galvani* Huxley.

- Hay, O. P.* 1902 A, 414.
Abel, O. 1912 F, 218 (Ceraterpeton).
 1919 A, 298 (Ceraterpeton).
Arlt, T. 1916 A, 100.
Baird, S. F. 1876 A, cci, 308 (Ceraterpeton).
Broili, F. 1905 A, 13 (Ceraterpeton).
 1908 F, 60.
- Cope, E. D.* 1880 U, 144 (Ceraterpeton).
Cunningham and Boulenger 1912 A, 171.
Depéret, C. 1912 A, 704.
Etheridge, R. 1866 A, 4.
Gadow, H. 1896 A, 23.
 1901 B, 288.
Geol. Magazine 1912 A, 519 (Ceraterpeton).

- Gill, T. 1881 A, 388 (Ceraterpeton).
 Gregory, W. K. 1915 D, 332 (Ceraterpeton).
 1917 B, 318.
 Hancock and Atthey 1869 C, 184.
 Howes, G. B. 1902 A, 525.
 Huene, F. 1922 G, 447 (Ceraterpeton).
 Hutchinson, H. N. 1910 A, 100, fig. 22 (Ceraterpeton).
 Huxley, T. H. 1871 A, 183, pl. xvii.
 Jaekel, O. 1903 A, 109 (Ceraterpeton).
 1909 A, 210 (Ceraterpeton).
 Moodie, R. L. 1915 G, 374 (Ceraterpeton).
 1908 G, 520, fig. 7 (Ceraterpeton).
 Sewertzoff, A. N. 1908 A, 359 (Ceraterpeton).
 Schmalhausen, J. 1917 A, 106 (Ceraterpeton).
 Thevenin, A. 1910 A, 40.
 Watson, D. M. S. 1913 F, 953 (Ceraterpeton).
 1916 E, 86 (Ceraterpeton).
 Williston, S. W. 1908 B, 400 (Ceraterpeton).
 Woodward, A. S. 1897 D, 293, pl. xii (Ceraterpeton).
 Zittel and Broili 1911 A, 164.
 Zittel, Eastman, etc. 1902 A, 126.
 The American species formerly referred to this genus have become each the type of a new genus, *Stegops*, *Eoserpeton*, and *Dicera-tosaurus*.

AMPHIBAMIDÆ Moodie.

- Moodie, R. L. 1910 C, 233.
 Gregory, W. K. 1917 B, 313, 317, 319.
 Moodie, R. L. 1911 H, 241.
 1912 D, 326.
 1916 A, 126.

AMPHIBAMUS Cope. Type *A. grandiceps* Cope.

- Hay, O. P. 1902 A, 411.
 Arldt, T. 1916 A, 98.
 Cope, E. D. 1885 DD, 305.
 Huene, F. 1912 E, 472.
 Moodie, R. L. 1909 E, 40.
 1912 D, 327.
 1916 A, 126.
 Osborn, H. F. 1916 E, 613, fig. 24.
 1917 B, 178, 179, fig.
 Sewertzoff, A. N. 1908 A, 359.
 Steiner, H. 1921 A, 535.
 Zittel and Broili 1911 A, 163.
 1923 A, 200.
 Moodie, R. L. 1909 E, 40, 82, fig. 24.
 1909 F, 218, fig. 1.
 1910 A, 368.
 1910 C, 233.
 1911 H, 242, pl. iii.
 1912 A, 277.
 1912 D, 324, 326, 343, pl. i, figs. 1, 2; pl. v, fig. 3; pl. vii, fig. 1; pls. xi-xiii.
 1914 A, 14.
 1915 A, 192.
 1916 A, 127, pl. iii, fig. 7; pl. iv, figs. 5, 6; pl. xiv, figs. 1, 2; text-figs. 26-28.
 Woodward, A. S. 1897 C, 378.
 Pennsylvanian (Mazon Creek); Illinois.
Amphibamus grandiceps Cope.
 Hay, O. P. 1902 A, 411.
 Andrae, A. 1903 B, 442.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 Huene, F. 1913 G, 502, fig. 2 (Amphibamas).
 Hutchinson, H. N. 1910 A, 102, fig. 24.
 Moodie, R. L. 1908 E, 564, fig. 3.
Amphibamus thoracatus Moodie.
 Moodie, R. L. 1911 B, 431, fig. 2.
 1912 A, 277.
 1912 D, 326, 347, pl. v, fig. 2.
 1914 A, 14.
 1916 A, 131.
 Pennsylvanian (Mazon Creek); Illinois.

CEPHALERPETON Moodie. Type *C. ventriarmatum* Moodie.

- Moodie, R. L. 1912 D, 327, 349.
 1916 A, 132.
Cephalerpeton ventriarmatum Moodie.
 Moodie, R. L. 1912 D, 326, 350, pl. i, fig. 4;
 pl. vii, fig. 2.
 Moodie, R. L. 1912 A, 278.
 1914 A, 16.
 1916 A, 133, pl. iv, fig. 4; text-fig. 29.
 Pennsylvanian (Mazon Creek); Illinois.

NYRANIIDÆ Lydekker.

- Lydekker, R. 1890 A, 166.
 Fritsch, A. 1889 B (1885), 33 (Nyrania).
 Moodie, R. L. 1916 A, 135.

ICHTHYERPETON Huxley. Type *I. bradleyæ* Huxley.

- Huxley, T. 1866, in Wright and Huxley 1866 A, 168.
 Arldt, T. 1916 A, 100.
 Etheridge, R. 1866 A, 4.
 Gregory, W. K. 1917 B, 313.
 Huxley, T. 1867 B, 367 (Ichthyerpeton); 369 (Erpetocephalus).
 Lydekker, R. 1890 A, 168 (Ichthyerpeton).
 Moodie, R. L. 1916 A, 135.
 Zittel, K. A. 1890 A, 381 (Ichthyerpeton, Erpetocephalus).
Ichthyerpeton squamosum Moodie.
 Moodie, R. L. 1909 E, 69.
 Gregory, W. K. 1917 B, 320.
 Moodie, R. L. 1909 B, 24.
 1914 A, 20.
 1916 A, 135.
 Pennsylvanian (Linton); Ohio.

CERCARIMORPHUS Cope. Type *C. parvisquamis* Cope.

- Hay, O. P. 1902 A, 417.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 313, 319.
 Moodie, R. L. 1915 E, 463.
 1916 A, 137.

Cercarimorphus parvisquamis Cope.

- Hay, O. P. 1902 A, 417.
 Moodie, R. L. 1914 A, 16.
 1916 A, 137, pl. xxi, figs. 3, 4; pl. xxiv,
 figs. 2, 3.
 Pennsylvanian (Linton); Ohio.

PTYONIIDÆ Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1919 A, 304.
 Broili, F. 1905 A, 14 (*Ceraterpetontidæ*).
 Gregory, W. K. 1917 B, 313, 317, 319.
 Huene, F. 1913 G, 505 (*Ptyonidæ*).

- Huene, F. 1920 C, 211 (*Ptyonidæ*).
 1926 A, 262 (*Ptyonidæ*).
 Moodie, R. L. 1916 A, 139.
 Schwarz, H. 1908 A, 324 ("ptyoniden").
 1908 B, 79 (*Ptyonidæ*).

PTYONIUS Cope. Type *P. pectinatus* Cope.

- Hay, O. P. 1902 A, 414.
 Arldt, T. 1916 A, 101.
 Broili, F. 1908 F, 59.
 Case, E. C. 1917 A, 135.
 1919 B, 200.
 Cope, E. D. 1885 DD, 305.
 Gregory, W. K. 1917 B, 319.
 Hutchinson, H. N. 1910 A, 103, pl. viii.
 Jaekel, O. 1903 A, 134.
 1909 A, 207, fig. 13.
 Moodie, R. L. 1908 F, 255.
 1908 G, 520.
 1909 B, 24.
 1909 C, 120.
 1909 E, 38.
 1916 A, 139, fig. 30.
 1920 B, 469, fig. 5 ("creature").
 Osborn, H. F. 1916 E, 613, fig. 24.
 1917 B, 179, fig.
 Schwarz, H. 1908 B, 82.
 Watson, D. M. S. 1913 F, 959.
 1917 C, 170.
 Zittel, Eastman, etc. 1902 A, 126 (Syn. of
 Urocordylus).

Ptyonius marshii Cope.

- Hay, O. P. 1902 A, 414.
 Moodie, R. L. 1914 A, 25.
 1916 A, 141.
 Pennsylvanian (Linton); Ohio.

Ptyonius nummifer Cope.

- Hay, O. P. 1902 A, 414.

- Moodie, R. L. 1909 A, 356, pl. lxiii, fig. 3 (*P. nummifer, errore*).
 1909 B, 25.
 1914 A, 25.
 1915 B, pl. I, fig. 4.
 1916 A, 142.
 Pennsylvanian (Linton); Ohio.

Ptyonius pectinatus Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1919 A, 230, figs. 179, 180.
 1921 A, 298, fig. 112.
 Moodie, R. L. 1909 B, 24, 25, pl. viii, fig. 3.
 1914 A, 25.
 1916 A, 139, pl. xx, fig. 2.
 Schwarz, H. 1908 B, 82, figs. 23, 24, 26.
 Pennsylvanian (Linton); Ohio.

Ptyonius serrula Cope.

- Hay, O. P. 1902 A, 415.
 Moodie, R. L. 1914 A, 25.
 1916 A, 142.
 Pennsylvanian (Linton); Ohio.

Ptyonius vinchellianus Cope.

- Hay, O. P. 1902 A, 415.
 Abel, O. 1919 A, 229, fig. 178.
 1921 A, 305, fig. 118.
 Moodie, R. L. 1914 A, 25.
 1916 A, 141.
 Schwarz, H. 1908 B, 82, fig. 27 (This species?).
 Pennsylvanian (Linton); Ohio.

ŒSTOCEPHALUS Cope. Type *O. amphiuminus* Cope = *O. remex* Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1921 A, 298.
 Arldt, T. 1916 A, 101.
 Broili, F. 1908 F, 59.
 Case, E. C. 1915 A, 132 (*Osteocephalus*).
 1917 A, 135.
 1919 B, 200.
 Cope, E. D. 1880 U, 144.
 1885 DD, 305.
 Gill, T. 1881 A, 388.
 Gregory, W. K. 1917 B, 319.
 Moodie, R. L. 1908 F, 255.
 1909 F, 219.
 1916 A, 143, fig. 31.
 1920 B, 468, fig. 5 ("creature").

- Schwarz, H. 1908 B, 82, 86.
 Watson, D. M. S. 1917 C, 170.
 Zittel, Eastman, etc. 1902 A, 126 (Syn. of
 Urocordylus).

Œstocephalus rectidens Cope.

- Hay, O. P. 1902 A, 414.
 Moodie, R. L. 1914 A, 23.
 1916 A, 145.
 Pennsylvanian (Linton); Ohio.

Œstocephalus remex Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1919 A, 229, fig. 177.
 Moodie, R. L. 1909 B, 27.

Moodie, R. L. 1914 A, 23.
1916 A, 143.

Schwarz, H. 1908 B, 87, figs. 29, 30.
Pennsylvanian (Linton); Ohio.

THYRSIDIUM Cope. Type *T. fasciculare* Cope.

Hay, O. P. 1902 A, 416.
Arlt, T. 1916 A, 101.
Case, E. C. 1917 A, 135.
1919 B, 200.
Moodie, R. L. 1916 A, 145.
Schwarz, H. 1908 B, 70.
Zittel and Broili 1911 A, 166 (Tyrsidium).

Thyrsidium fasciculare Cope.

Hay, O. P. 1902 A, 416.
Abel, O. 1919 A, 226, 304, fig. 225.
Moodie, R. L. 1909 B, 27.
1914 A, 27.
1916 A, 146.
Schwarz, H. 1908 B, 70, figs. 5-9.
Pennsylvanian (Linton); Ohio.

ICHTHYCANTHIDÆ Moodie.

Moodie, R. L. 1916 A, 171.

Gregory, W. K. 1917 B, 313, 319.

ICHTHYCANTHUS Cope. Type *I. ohioensis* Cope.

Hay, O. P. 1902 A, 422.
Case, E. C. 1911 B, 30.
1917 A, 134.
1919 B, 200.
Moodie, R. L. 1915 A, 509.
1916 A, 171.
Romer, A. S. 1922 B, 564.

Ichthycanthus ohioensis Cope.

Hay, O. P. 1902 A, 422.
Moodie, R. L. 1911 E, 240.
1914 A, 20.
1915 A, 509.

Moodie, R. L. 1916 A, 171.
Pennsylvanian (Linton); Ohio.

Ichthycanthus platypus Cope.

Hay, O. P. 1902 A, 422 (Eryops?).
Case, E. C. 1911 B, 30 (Eryops?).
Moodie, R. L. 1911 E, 240 (Eryops).
1914 A, 19 (To Eryops?).
1915 A, 509, fig. 2.
1915 C, 34.
1916 A, 172, pl. xxiii, fig. 1.
Pennsylvanian (Linton); Ohio.

MOLGOPHIDÆ Cope.

Hay, O. P. 1902 A, 411.
Abel, O. 1919 A, 307 (Phlegethontiidae, Molgophidae).
Arlt, T. 1912 A, 650.
1916 A, 101, 143 ("molgophiden").
Gregory, W. K. 1917 B, 313, 317, 319.
Huene, F. 1913 G, 505 (Molgophidae, Phlegethontiidae).
1920 C, 211 (Molgophidae, Phlegetontidae).

Jaekel, O. 1909 A, 209.
Kingsley, J. S. 1902 B, 327 (Aistopoda).
Moodie, R. L. 1912 D, 326.
1916 A, 147.
Schwarz, H. 1908 B, 73 (Molgophidae); 74 (Phlegethontiidae).
Zittel and Broili 1911 A, 165 (Aistopodidae).
Zittel, Eastman, etc. 1902 A, 127 (Aistopodidae).

MOLGOPHIS Cope. Type *M. macrurus* Cope.

Hay, O. P. 1902 A, 412.
Broili, F. 1908 E, 298.
1908 F, 59.
Case, E. C. 1917 A, 134.
1919 B, 200.
Jaekel, O. 1903 A, 134.
Moodie, R. L. 1908 F, 255.
1909 B, 27.
1909 E, 38.
1916 A, 147.
Schwarz, H. 1908 B, 73, figs. 10, 11.
Zittel and Broili 1911 A, 166.
1923 A, 203.

Molgophis brevicostatus Cope.

Hay, O. P. 1902 A, 412.
Moodie, R. L. 1909 B, 27.
1914 A, 23.

Moodie, R. L. 1916 A, 148, fig. 32.
Schwarz, H. 1908 B, 73.
Pennsylvanian (Linton); Ohio.

Molgophis macrurus Cope.

Hay, O. P. 1902 A, 412.
Moodie, R. L. 1908 F, 254.
1911 H, 242.
1914 A, 23.
1916 A, 147.
Pennsylvanian (Linton); Ohio.

Molgophis wheatleyi Cope.

Hay, O. P. 1902 A, 412.
Moodie, R. L. 1914 A, 23.
1915 B, pl. 1, fig. 3.
1916 A, 149.
Pennsylvanian (Linton); Ohio.

ERPETOBRACHIUM Moodie. Type *E. mazonensis* Moodie.

Moodie, R. L. 1912 D, 353.
1916 A, 150.

Erpetobrachium mazonensis Moodie.

Moodie, R. L. 1912 D, 326, 353, pl. ii, fig. 2;
pl. viii, fig. 3.
1912 A, 278.
1916 A, 150, pl. iii, fig. 3; text-fig. 15.
Pennsylvanian (Mazon Creek); Illinois.

PLEUROPTYX Cope. Type *P. clavatus* Cope.

Hay, O. P. 1902 A, 417.
Case, E. C. 1917 A, 135.
1919 B, 200.
Moodie, R. L. 1909 B, 27.
1916 A, 151.
Schwarz, H. 1908 B, 73.

Pleuroptyx clavatus Cope.

Hay, O. P. 1902 A, 417.
Baird, S. F. 1876 A, cc.
Moodie, R. L. 1909 B, 27.
1914 A, 25.
1916 A, 151, fig. 33.
Udden, J. A. 1902 B, 121.
Pennsylvanian (Linton); Ohio, Iowa.

PHLEGETHONTIA Cope. Type *P. linearis* Cope.

Hay, O. P. 1902 A, 411.
Abel, O. 1919 A, 234, 307, fig. 132.
1921 A, 298 ("phlegothontiiden").
Broili, F. 1908 E, 298.
1908 F, 59.
Case, E. C. 1917 A, 135.
1919 B, 200.
Cope, E. D. 1885 DD, 305.
Moodie, R. L. 1908 F, 255.
1916 A, 153.
Schwarz, H. 1908 B, 74.
Zittel and Broili 1911 A, 166.
1923 A, 203.

Abel, O. 1919 A, 230, fig. 182.
1921 A, 298, fig. 111.
Cope, E. D. 1885 DD, 305.
Moodie, R. L. 1914 A, 24.
1916 A, 154.
Schwarz, H. 1908 B, 74, figs. 12, 13.
Pennsylvanian (Linton); Ohio.

Phlegethontia serpens Cope.

Hay, O. P. 1902 A, 411.
Moodie, R. L. 1914 A, 24.
1916 A, 154.
Schwarz, H. 1908 B, 74.
Pennsylvanian (Linton); Ohio.

Phlegethontia linearis Cope.

Hay, O. P. 1902 A, 411.

SAUROPLEURIDÆ Hay.

Hay, O. P. 1902 A, 419.
Gregory, W. K. 1917 B, 313, 318,

Moodie, R. L. 1911 A, 489.
1916 A, 155.

SAUROPLEURA Cope. Type *S. digitata* Cope.

Hay, O. P. 1902 A, 419.
Broili, F. 1908 F, 59.
Case, E. C. 1917 A, 135.
1919 B, 200.
Cope, E. D. 1885 DD, 305.
Gregory, W. K. 1917 B, 319.
Moodie, R. L. 1909 A, 355, pl. lx, fig. 1.
1909 B, 15.
1914 A, 14.
1916 A, 155.
Steiner, H. 1921 A, 537.

Sauropleuria digitata Cope.

Hay, O. P. 1902 A, 419.
Moodie, R. L. 1914 A, 26.
1916 A, 157, pl. xx, fig. 4.
Pennsylvanian (Linton beds); Ohio.

Sauropleuria enchodus (Cope).

Hay, O. P. 1902 A, 423 (Anisodexis).
Moodie, R. L. 1911 E, 240 (Anisodexis?).
1914 A, 14 (Sauropleuria?).
1916 A, 162, pl. xvi, fig. 4.
Pennsylvanian (Linton beds); Ohio.

Sauropleuria foveata (Cope).

Hay, O. P. 1902 A, 419.
Moodie, R. L. 1916 A, 161.
Pennsylvanian (Linton); Ohio.

Sauropleuria longidentata Moodie.

Moodie, R. L. 1909 E, 74, figs. 18, 19.
1914 A, 26.
1916 A, 160, pl. xvi, figs. 2, 3.
Pennsylvanian (Linton); Ohio.

Sauropleuria newberryi Cope.

Hay, O. P. 1902 A, 419.
Moodie, R. L. 1914 A, 26.
1916 A, 158.
Pennsylvanian (Linton); Ohio.

Sauropleuria pauciradiata Cope.

Hay, O. P. 1902 A, 419.
Moodie, R. L. 1916 A, 158, fig. 34.
Pennsylvanian (Linton); Ohio.

Sauroplorea scutellata (Newb.).

Hay, O. P. 1902 A, 419.
 Moodie, R. L. 1909 A, 355.
 1909 B, 26.

Moodie, R. L. 1914 A, 26.

1916 A, 156, pl. xiv, fig. 3; pl. xxi, fig. 5
 Pennsylvanian (Linton); Ohio.

CTENERPETON Cope. Type *C. alveolatum* Cope.

Hay, O. P. 1902 A, 415.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 315, 319.
 Moodie, R. L. 1909 B, 15.
 1916 A, 166.

Ctenerpeton alveolatum Cope.

Hay, O. P. 1902 A, 415.
 Merrill, G. P. 1907 A, 9.
 Moodie, R. L. 1909 B, 24, pl. x.
 1914 A, 17.
 1916 A, 166, pl. xix; pl. xxiii, fig. 2.
 Pennsylvanian (Linton); Ohio.

SAURERPETON Moodie. Type *Sauroplorea latithorax* Cope.

Moodie, R. L. 1909 E, 80.
 Case, E. C. 1919 B, 200.
 Moodie, R. L. 1909 B, 15.
 1916 A, 162.

Saurerpeton latithorax (Cope).

Hay, O. P. 1902 A, 419 (Sauroplorea).

Merrill, G. P. 1907 A, 77 (Sauroplorea).

Moodie, R. L. 1909 B, 23, pl. lx.
 1909 E, 80, fig. 23.
 1914 A, 26.
 1916 A, 163, pl. xvii; text-fig. 35.
 1920 B, 467, fig. 4 ("fellow").
 Pennsylvanian (Linton); Ohio.

LEPTOPHRACTUS Cope. Type *L. obsoletus* Cope.

Hay, O. P. 1902 A, 419.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 319.
 Moodie, R. L. 1916 A, 167.

Leptophractus dentatus Moodie.

Moodie, R. L. 1916 A, 169, fig. 36.
 1914 A, 21 (Name only).
 Pennsylvanian (Linton); Ohio.

Leptophractus lineolatus Cope.

Hay, O. P. 1902 A, 419.
 Moodie, R. L. 1914 A, 21.
 1916 A, 169, pl. xxii, fig. 1.
 Pennsylvanian (Linton); Ohio.

Leptophractus obsoletus Cope.

Hay, O. P. 1902 A, 419.
 Moodie, R. L. 1914 A, 21.
 1916 A, 167.
 Pennsylvanian (Linton); Ohio.

SEVEN SUPPOSED MICROSAURIAN GENERA WHOSE RELATIONSHIPS ARE
UNCERTAINEURYTHORAX Cope. Type *E. sublævis* Cope.

Hay, O. P. 1902 A, 416.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Hussakof, L. 1916 A, 127 (= ? Sagenodus).
 This genus may belong among the fishes.

Eurythorax sublævis Cope.

Hay, O. P. 1902 A, 416.
 Hussakof, L. 1916 A, 127 (Sagenodus).
 Moodie, R. L. 1914 A, 19.
 1916 A, 170, fig. 37.
 Pennsylvanian (Linton); Ohio.

AROTUS Cope. Type *Ceratodus hieroglyphus* Cope.

Cope, E. D. 1877 G, 554.
 Moodie, R. L. 1908 F, 252.
Arotus hieroglyphus (Cope).
 Hay, O. P. 1902 A, 356 (Ceratodus).
 Bowen, C. F. 1915 A, 118, 149, 150 (Ceratodus).
 Cockerell, T. D. A. 1908 C, 162 (Ceratodus).

Cope, E. D. 1877 G, 554.
 Hatcher, J. B. 1905 B, 68 (Ceratodus).
 Hussakof, L. 1908 A, 51 (Ceratodus).
 Moodie, R. L. 1908 F, 252, fig. 3 (Ceratodus).
 Referred to the Amphibia).
 Osborn, H. F. 1902 I, 11 (Ceratodus).
 Upper Cretaceous (Judith River); Montana.

SCAPHERPETON Cope. Type *S. tectum* Cope.

Hay, O. P. 1902 A, 424.
 Abel, O. 1919 A, 330.
 Arltdt, T. 1916 A, 103.
 Cope, E. D. 1880 U, 148.
 Gilmore, C. W. 1924 A, 68.
 Hatcher, J. B. 1905 B, 70.
 Hay, O. P. 1910 B, 296.

Moodie, R. L. 1908 F, 255.
 Peale, A. C. 1912 A, 746.
 Pompeckj, J. F. 1912 A, 340.
 Williston, S. W. 1900 B, 394, pl. xxiv, figs. 13,
 13a.
 Zittel and Broili 1923 A, 206.

Scapherpeton excisum Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1915 A, 120.
 Hatcher, J. B. 1905 B, 70.
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.
 Osborn, H. F. 1902 I, 11.
 Upper Cretaceous (Judith River); Montana.

Scapherpeton favosum Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1915 A, 120.
 Hatcher, J. B. 1905 B, 70.
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.
 Osborn, H. F. 1902 I, 11.
 Upper Cretaceous (Judith River); Montana.

Scapherpeton laticolle Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1915 A, 120.
 Hatcher, J. B. 1905 B, 70.
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.

HEMITRYPUS Cope. Type *H. jordanianus* Cope.

- Hay, O. P. 1902 A, 424.
 Arldt, T. 1916 A, 103.
 Pompeckj, J. F. 1912 A, 340.

Hemitrypus jordanianus Cope.

- Hay, O. P. 1902 A, 424.

- Osborn, H. F. 1902 I, 11.
 Upper Cretaceous (Judith River); Montana.

Scapherpeton tectum Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1901 A, 120, 148.
 Brown, B. 1907 A, 842.
 1914 E, 358, 378.
 Gilmore, C. W. 1924 D, 27.
 Hatcher, J. B. 1903 D, 372.
 1905 B, 69, 70.
 Lambe, L. M. 1902 A, 31, pl. iii, figs. 4-8; pl. xv, figs. 16, 17?
 1904 C, 22, 36, 46.
 1912 A, 8.
 Matthew, W. D. 1916 A, 485 (This species?).
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.
 Osborn, H. F. 1902 I, 11, 16.
 Peale, A. C. 1912 A, 754.
 Sternberg, C. M. 1924 A, 68.
 Williston, S. W. 1902 K, 953.
 Upper Cretaceous (Judith River, Hell Creek);
 Montana: (Belly River); Alberta: (Lance);
 Wyoming; Saskatchewan.

AMBLYODON Dawson. Type *A. problematicum* Dawson.

- Hay, O. P. 1902 A, 416.
 Moodie, R. L. 1916 A, 176, fig. 38.

Amblyodon problematicum Dawson.

- Hay, O. P. 1902 A, 416 (A. problematicus).
 Lambe, L. M. 1904 C, 35, 45 (A. problematicus).
 Moodie, R. L. 1914 A, 14 (A. problematicus).
 1916 A, 177.
 Pennsylvanian; Nova Scotia.

BRACHYDECTES Cope. Type *B. newberryi* Cope.

- Hay, O. P. 1902 A, 413.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Moodie, R. L. 1916 A, 175.

Brachydectes newberryi Cope.

- Hay, O. P. 1902 A, 413.
 Moodie, R. L. 1914 A, 15.
 1916 A, 175.
 Pennsylvanian (Linton); Ohio.

PROTERPETON Moodie. Type *P. gurleyi* Moodie.

- Moodie, R. L. 1916 A, 176.
 This genus may belong among the fishes.

Proterpeton gurleyi Moodie.

- Moodie, R. L. 1916 A, 176, pl. xxii, fig. 2.
 1914 A, 25 (No description).
 Pennsylvanian; Illinois.

Suborder GANOCEPHALA Owen.

- Owen, R. 1860 A, 155.
 Hay, O. P. 1902 A, 417 (Apæcospondyli, part).
 Abel, O. 1920 A, 352 (Rhachitomi).
 Arldt, T. 1907 D, 652 (Embolomeri); 684 (Temnospondyli).
 1916 A, 95 ("sklerokephalen," "ganokephalen," "embolomeren," "rachitomen").
 Boulenger, G. A. 1902 F, 383 (Rhachitomi).

- Broili, F. 1904 A, 37 (Temnospondyli).
 Broom, R. 1910 A, 214 (Temnospondyli).
 Case, E. C. 1911 B, 14, 23, 80 (Temnospondyli).
 1915 A, 96 (Temnospondyli).
 Cope, E. D. 1885 DD, 304 (Ganocephala, Rhachitomi, Embolomeri).
 1891 N, 28, 29 (Ganocephali, Rhachitomi, Embolomeri).

- Dollo, L. 1884 D, 86 (Rhachitomi, Embolomeri).
1885 D, 629 (Archegosaurus).
Fürbringer, M. 1902 A, 217 (Rhachitomi, Embolomeri).
Gadow, H. 1901 B, 81 (Temnospondyli).
Gaudry, A. 1876 A, 721 (Actinodon).
1878 A, 956 ("reptiles").
Gaupp, E. 1912 A, 565 (Temnospondyli).
Geinitz and Deichmüller 1882 B, 21 (Archegosaurus).
Greene, J. R. 1861 A, 218, 226.
Gregory, W. K. 1915 D, 365 (Temnospondyli).
Haeckel, E. 1868 A, 448.
Huene, F. 1902 A, 14, 68 (Temnospondyli).
1913 B, 379 (Temnospondyli).
1913 G, 506 (Temnospondyli).
1920 C, 211 (Rhachitomi, Embolomeri).
1926 A, 262 (Temnospondyli, Embolomeri).
Jaekel, O. 1896 C, 505 (Archegosaurus).
1904 B, 115 (Temnospondyli).
1906 D, 189 (Temnospondyli).
1909 A, 194 (Temnospondyli).
Lydekker, R. 1885 F, 1-16, pls. i-iv ("labyrinthodonts").
Makowsky, A. 1876 A, 155 (Archegosaurus).
Moodie, R. L. 1908 B, 363 (Temnospondyli).
1908 G, 516, 520 (Temnospondylia).
1909 D, 243 (Temnospondylia, Embolomeri).
1909 E, 39 (Temnospondyli).
1909 F, 220 (Temnospondylia).
1910 C, 234 (Temnospondylia); 241 (Embolomeri).
1911 A, 489 (Apæcospondyli).
1911 E, 236, 240, 242 (Temnospondylia).
1911 H, 243 (Temnospondylia, Embolomeri).
1912 D, 326 (Temnospondylia, Embolomeri).
1915 F, 189, 190 (Temnospondylia).
1915 H, 638 (Temnospondylia).
Moodie, R. L. 1916 A, 5, 178 (Temnospondylia).
Owen, R. 1866 A, 14.
Quenstedt, F. A. 1861 A, 204 (Archegosaurus).
Romer, A. S. 1922 B, 523 (Embolomeri, Rhachitomi).
1925 A, 180 (Embolomeri).
1925 B, 456, 461 (Embolomeri); 460 (Rhachitomi).
Stensiö, E. A. 1921 A, 140 (Temnospondyli).
Sushkin, P. P. 1927 A, 270, 310 (Rhachitomi); 316 (Embolomeri).
Terra, P. 1911 A, 225.
Thevenin, A. 1910 A, 4, 16 ("temnospondyles").
Vogt, C. 1854 A, 676 (Archegosaurus).
Watson, D. M. S. 1916 C, 632 ("temnospondyls").
1917 C, 168 (Embolomeri, Rhachitomi).
1919 A, 286, 291 ("temnospondyls"); 286, 292 (Embolomeri, Rhachitomi).
1919 B, 3, 49, 50, 62, 64 (Labyrinthodontia, Embolomeri, Rhachitomi).
1926 A, 192 (Rhachitomi, Embolomeri).
Williston, S. W. 1908 B, 400 (Temnospondyli).
1910 D, 534 (Temnospondyli, Embolomeri).
1911 B, 9 (Temnospondyli).
1916 B, 200 (Temnospondyli); 208 (Embolomeri).
1918 A, 75 (Temnospondyli).
1925 A, 1, 6, 21, 25, 27, 112, 195 (Temnospondyli).
Zittel, K. A. 1890 A, 384 (Temnospondyli).
Zittel and Broili 1911 A, 166 (Temnospondyli, Rhachitomi).
1923 A, 173, 186 (Temnospondyli); 186 (Embolomeri); 187 (Rhachitomi).
Zittel, Eastman, etc. 1902 A, 128 (Temnospondyli).

CRICOTIDÆ Cope.

- Hay, O. P. 1902 A, 420.
Abel, O. 1919 A, 293.
Arlt, T. 1912 A, 656.
1916 A, 142 ("cricotiden").
Case, E. C. 1911 B, 14, 72, 81, 84.
1915 A, 97.
1915 D, 797.
Cope, E. D. 1891 N, 30.
Gregory, W. K. 1917 B, 313.
Huene, F. 1913 G, 507.
1920 C, 211.
1926 A, 262, 267 (Embolomeri).
Jaekel, O. 1922 A, 25.
Moodie, R. L. 1911 E, 241.
1912 D, 326.
1916 A, 178.
Watson, D. M. S. 1917 C, 169.
Williston, S. W. 1910 D, 534.
1916 B, 238.

CRICOTUS Cope. Type *C. heteroclitus* Cope.

- Hay, O. P. 1902 A, 420.
Abel, O. 1919 A, 225, 293, fig. 174.
Arlt, T. 1916 A, 99, 103.
Beede, J. W. 1922 A, 682.
Broili, F. 1904 A, 46, 48.
1908 D, 240.
1913 A, 98.
Broom, R. 1910 A, 214.
1910 C, 476.
1913 F, 563, 564.
Case, E. C. 1900 A, 698.
1908 C, 579.
1911 B, 14, 72, 84, 145, pl. xxv, fig. 3; text-fig. 50.
Case, E. C. 1915 A, 106, 107, 132, 158, 159, pl. xxii, figs. 1-7; text-figs. 33-37.
1915 D, 797.
1919 B, 272.
Cope, E. D. 1878 LL, 482.
1880 U, 145.
Cummins, W. F. 1908 A, 745.
Dames, W. 1899 C, 366.
Dollo, L. 1884 D, 91.
1893 D, 9.
Fürbringer, M. 1904 A, 576.
Gadow, H. 1901 B, 285.
1902 B, 359, 361.
Gaudry, A. 1888 A, 2.

- Gregory, W. K. 1917 B, 312.
 Huene, F. 1913 G, 503.
 1920 F, 460.
 Koken, E. 1898 B, 143.
 Lydekker, R. 1903 D, 75.
 1912 C, 15.
 Matthew, W. D. 1909 G, 94, fig. 5.
 Mehl, M. G. 1919 A, 52.
 Miner, R. W. 1925 A, 183, fig. 20.
 Nopesa, F. 1923 H, 20.
 Osborn, H. F. 1916 E, 611, fig. 23.
 1917 B, 311.
 Oswald, F. 1909 A, 124.
 Romer, A. S. 1922 B, *passim*, pls. xxxvii, xlv.
 1924 A, 126.
 1925 A, 180, 181.
 1926 A, 58.
 1928 C, 257.
 Schuchert, C. 1910 A, 570.
 Schwarz, H. 1908 A, 321.
 Thevenin, A. 1910 A, 38.
 Watson, D. M. S. 1916 C, 632.
 1916 E, 85.
 1917 C, 169.
 1919 A, 294.
 1919 B, 50.
 1926 A, 241.
 Williston, S. W. 1910 A, 271.
 1910 D, 534.
 1915 A, 578.
 1916 B, 209, figs. 50, 51.
 1918 A, 76, fig. 1.
 1925 A, 97, 98, 119, 143, fig. 76.
 Wiman, C. 1910 A, 40.
 Woodward, A. S. 1904 D, 175.
 Zittel and Broili 1911 A, 171.
 1923 A, 187.

Cricotus crassidiscus Cope.

- Hay, O. P. 1902 A, 421.
 Beede, J. W. 1907 A, 119.
 Broom, R. 1913 F, 564, figs. 1, 3.
 Case, E. C. 1911 B, 76.
 1915 A, 97.
 Cope, E. D. 1885 DD, 305, fig. 172.
 Cope and Matthew 1915 A, pls. xvi, xvii.
 Cummins, W. F. 1908 A, 743.
 Huene, F. 1913 B, 367, fig. 51.
 Moodie, R. L. 1911 E, 241.
 1912 D, 356.
 1914 A, 16.
 Permian (Wichita); Texas.

Cricotus gibsoni Cope.

- Hay, O. P. 1902 A, 421.
 Case, E. C. 1900 A, 709, pl. i, fig. 15.
 1911 B, 75.
 1915 A, 97.
 Cope and Matthew 1915 A, pl. iii, fig. 17.
 Moodie, R. L. 1911 E, 241.
 1914 A, 16 (C. gibsonii).
 Pennsylvanian (Upper); Illinois.

Cricotus heteroclitus Cope.

- Hay, O. P. 1902 A, 421.
 Beede, J. W. 1907 A, 119.
 Broom, R. 1913 F, 564 (C. discophorus).
 Case, E. C. 1900 A, 708, pl. i, figs. 12-14.
 1911 B, 75, 145, 146, pl. xxiv, figs. 1, 2;
 pl. xxv, figs. 1, 2, 4; text-figs. 50, 51.
 1915 A, 97, 157, 159, pl. xx, fig. 1; text-
 fig. 32.
 Cope, E. D. 1891 N, 31, fig. 14.
 Cope and Matthew 1915 A, pl. iii, figs. 15, 16.
 Dames, W. 1899 C, 366.
 Gadow, H. 1901 B, 287.
 Moodie, R. L. 1911 E, 241.
 1912 D, 326.
 1914 A, 16.
 Williston, S. W. 1897 K, 395.
 Pennsylvanian (Upper); Illinois.

Cricotus hypantricus Cope.

- Hay, O. P. 1902 A, 421.
 Beede, J. W. 1907 A, 119.
 Broom, R. 1913 F, 566, fig. 2.
 Case, E. C. 1911 B, 74, 146, text-fig. 51.
 1915 A, 97, 159.
 Cummins, W. F. 1908 A, 741.
 Gadow, H. 1896 A, 41, fig. 42.
 Moodie, R. L. 1911 E, 241.
 1914 A, 17.
 Permian (Wichita); Texas: (Enid); Okla-
 homa: (Garrison?); Kansas.

Cricotus sp. indet.

- Undetermined remains have been mentioned
 as follows:
 Hay, O. P. 1902 A, 421.
 Case, E. C. 1900 A, 709, pl. v, figs. 13-16.
 (Permian; Illinois.)
 1902 B, 63. Permian; Oklahoma.
 Moodie, R. L. 1914 A, 17. Carboniferous (Up-
 per); Illinois.
 Romer, A. S. 1927 A, 232. Permian (Wichita);
 Texas.
 Wegeman, C. H. 1915 A, 25. Permian (Wichi-
 ta); Oklahoma.

CRICOTILLUS Case. Type *C. brachydens* Case.

- Case, E. C. 1902 B, 63.
 Arldt, T. 1916 A, 99.
 Case, E. C. 1911 B, 14, 78.
 Huene, F. 1920 F, 461.
 Romer, A. S. 1925 A, 181.
 Schuchert, C. 1910 A, 570.
 Williston, S. W. 1910 A, 281.
 1910 D, 534.

Cricotillus brachydens Case.

- Case, E. C. 1902 B, 63, 65.
 Beede, J. W. 1907 A, 139.
 Case, E. C. 1911 B, 78, text-fig. 20.
 1915 A, 97.
 Moodie, R. L. 1911 E, 240.
 1914 A, 16.
 Williston, S. W. 1910 D, 534.
 Permian (Enid); Oklahoma.

CHENOPROSOPUS Mehl. Type *C. milleri* Mehl.

- Mehl, M. G. 1913 A, 11.
 Abel, O. 1919 A, 310.
 Case, E. C. 1915 A, 106, 133.
 Huene, F. 1920 F, 461.
 Williston, S. W. 1915 A, 578.
 1916 B, 209.
 1918 B, 93.
 Zittel and Broili 1923 A, 192.

Chenoprosopus milleri Mehl.

- Mehl, M. G. 1913 A, 11, figs. 4-7.
 Abel, O. 1919 A, 311, fig. 231.
 Case, E. C. 1915 A, 97.
 Lydekker, R. 1914 A, 650.
 Williston, S. W. 1918 B, 93, fig. 7 ("Chenoprosopus").
 Williston and Case 1913 A, 6.
 Permian; New Mexico.

SPONDYLERPETON Moodie. Type *S. spinatum* Moodie.

- Moodie, R. L. 1912 D, 355.
 Gregory, W. K. 1917 B, 312.
 Moodie, R. L. 1916 A, 178.
 Watson, D. M. S. 1917 C, 169.

Spondylerpeton spinatum Moodie.

- Moodie, R. L. 1912 D, 326, 355, pl. viii, figs. 1, 2, pl. ix, fig. 1.

- Case, E. C. 1915 D, 797.
 Moodie, R. L. 1911 E, 240 (No description).
 1912 A, 278.
 1912 D, 326.
 1914 A, 26.
 1916 A, 179, pl. iv, figs. 1, 2, text-fig. 39
 Pennsylvanian (Mazon Creek); Illinois.

MACRERPETIDÆ Moodie.

- Moodie, R. L. 1909 A, 354.
 Gregory, W. K. 1917 B, 313 (Macrepetidæ).

- Moodie, R. L. 1915 F, 189.
 1916 A, 181.

MACRERPETON Moodie. Type *Tuditanus huxleyi* Cope.

- Moodie, R. L. 1909 E, 72.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 312.
 Moodie, R. L. 1909 A, 347.
 1916 A, 182.
 Watson, D. M. S. 1919 B, 21.

Macrerpeton deani Moodie.

- Moodie, R. L. 1916 A, 184, pl. xxi, figs. 1, 2;
 text-fig. 40 (pl. xxii, fig. 4. This species?).
 1914 A, 21 (Name only).
 Pennsylvanian (Linton); Ohio.

Macrerpeton huxleyi (Cope).

- Hay, O. P. 1902 A, 415 (Tuditanus).
 Moodie, R. L. 1909 A, 347, 354, pl. lix, fig. 1.
 1909 B, 28.
 1909 D, 239.
 1909 E, 72, fig. 17.
 1909 F, 217.
 1911 A, 490.
 1911 H, 239.
 1914 A, 21.
 1916 A, 182, pl. xxvi, fig. 2.
 Pennsylvanian (Linton); Ohio.

ANTHRACOSAURIDÆ Cope.

- Cope, E. D. 1875 X, 10.
 Hay, O. P. 1902 A, 421 (Anthracosauridæ); 417
 (Dendrerpetontidæ).
 Bailey, W. H. 1876 A, 62 (Anthracosaurus).
 Gregory, W. K. 1917 B, 313.
 Hancock and Atthey 1869 C, 184 (Anthracosaurus).
 1869 D, 270 (Anthracosaurus).

- Lydekker, R. 1890 A, 157.
 Moodie, R. L. 1916 A, 48, 185.
 Watson, D. M. S. 1917 C, 168.
 Wright and Huxley 1866 A, 169 (Anthracosaurus).
 Zittel, Eastman, etc. 1902 A, 131 (Gastrolepidotidæ).
 Zittel and Broili 1911 A, 171 (Anthracosaurus).

EOSAURUS Marsh. Type *E. acadianus* Marsh.

- Hay, O. P. 1902 A, 421.
 Arltdt, T. 1916 A, 99.
 Brauns, D. 1890 A, 202.
 Gregory, W. K. 1917 B, 320.
 Moodie, R. L. 1913 B, 32.
 1915 F, 189.
 Watson, D. M. S. 1919 B, 21.
 Williston, S. W. 1909 A, 394.
 1910 F, 599.
 1925 A, 94.
 Zittel and Broili 1911 A, 171.
 1923 A, 187.
 Zittel, Eastman, etc. 1902 A, 132.

Eosaurus acadianus Marsh.

- Hay, O. P. 1902 A, 421.
 Agassiz, L. 1862 A, 138 ("sauroid remains").
 Bell, W. A. 1913 A, 341, 343.
 Lambe, L. M. 1904 C, 14, 20, 35, 46.
 Lucas, F. A. 1902 B, 117, figure.
 Mackie, S. J. 1863 F, 440.
 Moodie, R. L. 1908 B, 362 (*E. canadensis*).
 1909 F, 217.
 1910 B, 721 (*E. canadensis*).
 1911 A, 489, 495 (*E. canadensis*).
 1911 H, 239.
 1914 A, 18.
 1916 A, 187, fig. 41.
 Pennsylvanian (Joggins); Nova Scotia.

EOBAPHETES Moodie. Type *Erpetosuchus kansensis* Moodie.

- Moodie, R. L. 1916 A, 189.
 Gregory, W. K. 1917 B, 312.
 Moodie, R. L. 1915 F, 189.
 Watson, D. M. S. 1912 A, 8 (*Erpetosuchus*).
 1917 C, 168 (*Erpetosuchus*).
 1919 B, 21 (*Erpetosuchus*).

Eobaphetes kansensis Moodie.

- Moodie, R. L. 1911 A, 491, figs. 1-4 (*Erpetosuchus*).
 Gaupp, E. 1912 A, 566 (*Erpetosuchus*).
 Moodie, R. L. 1914 A, 18 [*E. (Erpetosuchus)*].
 1916 A, 190, fig. 42.
 Watson, D. M. S. 1912 A, 8 (*Erpetosuchus*).
 Pennsylvanian; Kansas.

BAPHETES Owen. Type *B. planiceps* Owen.

- Hay, O. P. 1902 A, 418.
 Arldt, T. 1916 A, 99 (*Taphetes*).
 Moodie, R. L. 1915 F, 189.
 1916 A, 186.
 Owen, R. 1860 E, 184.
 Watson, D. M. S. 1912 A, 8.
 1917 C, 168.
 1919 B, 21.
 1926 A, 198, fig. 4.
 Zittel and Broili 1911 A, 171.
 1923 A, 187.

Baphetes minor Dawson.

- Hay, O. P. 1902 A, 418.
 Dawson, J. W. 1870 B, 271.

- Lambe, L. M. 1904 C, 20, 35, 45.
 Moodie, R. L. 1914 A, 15.
 1916 A, 187.
 Pennsylvanian (Joggins); Nova Scotia.

Baphetes planiceps Owen.

- Hay, O. P. 1902 A, 418.
 Lambe, L. M. 1904 C, 20, 35, 45.
 Mackie, S. J. 1863 F, 436.
 Moodie, R. L. 1908 E, 563 (*Raphetes*; err. typ.).
 1911 A, 489, 495.
 1914 A, 15.
 1916 A, 186, pl. xxii, fig. 6.
 Owen, R. 1860 E, 184.
 Pennsylvanian (Joggins); Nova Scotia.

DENDRERPETON Owen. Type *D. acadianum* Owen.

- Hay, O. P. 1902 A, 417.
 Arldt, T. 1912 A, 650.
 Brauns, D. 1890 A, 161.
 Broili, F. 1904 A, 37.
 1908 F, 60.
 Dawson, J. W. 1888 A, 393.
 Depéret, C. 1907 B.
 1912 A, 704.
 Gregory, W. K. 1917 B, 312.
 Heilprin, A. 1887 A, 310.
 Huxley, T. H. 1863 C, 571.
 Moodie, R. L. 1912 D, 327.
 1916 A, 192.
 Owen, R. 1876 E, 45.
 Wills, L. J. 1916 A, 17.
 Zittel and Broili 1923 A, 200.

Dendrerpeton acadianum Owen.

- Hay, O. P. 1902 A, 418.

- Bell, W. A. 1913 A, 343.
 Broili, F. 1908 F, 60.
 Dawson, J. W. 1854 A, 22.
 Jaeger, G. 1856 A, 959.
 Lambe, L. M. 1904 C, 20, 35, 45.
 Lull, R. S. 1918 B, 202.
 Mackie, S. J. 1863 F, 436, 437.
 Moodie, R. L. 1916 A, 192, pl. vi.
 Pennsylvanian (Joggins); Nova Scotia.

Dendrerpeton oweni Dawson.

- Hay, O. P. 1902 A, 418.
 Bell, W. H. 1912 A, 343.
 Lambe, L. M. 1904 C, 20, 35, 45.
 Mackie, S. J. 1863 F, 438.
 Moodie, R. L. 1914 A, 17 (*D. owenii*).
 1916 A, 194, pl. xiii.
 1920 B, 466, fig. 3 ("4-footed animal").
 Pennsylvanian (Joggins); Nova Scotia.

PLATYSTEGOS Dawson. Type *P. loricatum* Dawson.

- Hay, O. P. 1902 A, 418.
 Moodie, R. L. 1916 A, 197.
 A genus of somewhat uncertain position.

Platystegos loricatum Dawson.

- Hay, O. P. 1902 A, 418.
 Lambe, L. M. 1904 C, 20, 35, 45.
 Moodie, R. L. 1914 A, 24.
 1916 A, 197.
 Pennsylvanian (Joggins); Nova Scotia.

ERYOPIDÆ Cope.

- Hay, O. P. 1902 A, 421.
 Abel, O. 1919 A, 277.
 Arldt, T. 1907 D, 678 (*Rhachitomi*).
 1909 B, 353 ("*eryopiden*").
 1912 A, 656 (*Eryopidæ*, *Rhachitomi*).
 1916 A, 142 ("*eryopiden*").
 Broili, F. 1904 D, 532 ("*rhachitomen*").
 1913 A, 98.

- Case, E. C. 1911 B, 14, 23, 80, 81.
 1915 A, 96.
 Cope, E. D. 1891 N, 29.
 Dollo, L. 1884 D, 88.
 Huene, F. 1913 G, 506.
 1920 C, 211 (*Eryopinæ*).
 Jaekel, O. 1909 A, 204.
 1922 A, 23.

- Lydekker, R. 1885 F, 9, 10 (Actinodontidæ); 9 (Rhachitomi).
 Moodie, R. L. 1909 D, 243 (Rhachitomi).
 1910 C, 240, 242 (Eryopidæ); 240 (Rhachitomi).
 1916 A, 180.
 Watson, D. M. S. 1919 B, 2, 64 (Rhachitomi, Eryopidæ).
 Williston, S. W. 1910 D, 535 (Eryopidæ, Rhachitomi).
 1911 B, 9.
 1916 B, 200 (Eryopidæ, Rhachitomi).
 1918 A, 75 (Rhachitomi).
 Zittel and Broili 1911 A, 168 (Rhachitomi).
 1923 A, 187.

ERYOPS Case. Type *E. megacephalus* Cope.

- Hay, O. P. 1902 A, 421.
 Abel, O. 1912 F, 671.
 1919 A, 223, 256, figs. 172, 188, 194, 206.
 1921 A, 250.
 Adams, L. A. 1919 A, 128, pl. xii.
 Amalitsky, V. P. 1921 B, 9.
 1924 A, 58.
 1924 B, 72.
 Anonymous 1912 A, 519.
 Arldt, T. 1916 A, 102.
 Beasley, W. L. 1907 A, 368.
 Boas, J. E. V. 1914 C, 239, fig. 5.
 Boule, M. 1891 A, 8.
 Boulenger, G. A. 1901 B, 401.
 Branson, E. B. 1905 B, 568, 595, 610, figs. 5, 11-14, 16, 18, 19.
 Branson and Mehl 1928 C, 488.
 Broili, F. 1904 A, 28, 49, 62.
 1904 B, 484.
 1904 D, 579.
 1908 D, 236.
 1913 C, 529.
 1913 D, 351.
 1917 A, 572.
 1926 A, 209, figs. 5, 9.
 Broom, R. 1901 A, 185.
 1903 E, 136.
 1904 B, 90.
 1908 A, 1058.
 1908 D, 373.
 1910 C, 476.
 1911 B, 79.
 1913 E, 531.
 1913 F, 563, 579.
 1913 H, 73.
 1913 I, 355.
 1915 C, 30.
 1917 A, 977.
 1926 A, 263.
 Bulman and Whittard 1926 A, 577.
 Case, E. C. 1902 A, 48.
 1903 C, 394, fig. 1.
 1908 B, 235, pl. lix, figs. 5-8; text-figs. 1-3.
 1908 C, 576, 579.
 1908 D, 567.
 1911 B, 14, 23, 81, 91, 93, pl. v, figs. 3, 4; pl. viii, fig. 2; pl. xv, fig. 10; text-fig. 26.
 1915 A, 126, 165, pl. xxiii, figs. 1-4.
 1924 B, 6.
 Cope, E. D. 1880 U, 145 (Rhachitomus).
 Credner, H. 1893 A, 673, 688.
 Cummins, W. F. 1908 A, 745.
 Dollo, L. 1893 D, 9.
 Douthitt, H. 1917 A, 237.
 Drevermann, F. 1914 B, 628.
 1920 A, 89, 100, 104.
 Eastman, C. R. 1917 B, 656.
 Eastman, Gregory, and Matthew 1917 A, 118.
 Emery, C. 1901 A, 672, fig. 12.
 Frassetto, F. 1915 A, 52.
 Fuchs, H. 1912 B, 89.
 Fürbringer, M. 1904 A, 576.
 Gadow, H. 1896 A, 21, 22, 51 (Syn. of Rhachitomus).
 1901 B, 285.
 1902 B, 359, 361.
 Gaudry, A. 1888 A, 2.
 1896 A, 59.
 Gaupp, E. 1912 A, 565.
 Gregory, W. K. 1910 A, 439, 440.
 1911 A, 508.
 1913 D, 807.
 1915 D, 336, fig. 11.
 1917 B, 312.
 1920 A, 223.
 Gregory and Camp 1918 A, 547.
 Gregory, Miner and Noble 1923 A, 279.
 Gregory and Noble 1924 A, 439, fig. 1.
 Hanson, F. B. 1920 B, 335, 337.
 Heilprin, A. 1887 A, 155.
 Hitchcock and Grier 1927 A, 192.
 Hoepen, E. C. N. 1915 A, 140, 142.
 Huene, F. 1902 A, 8.
 1909 D, 332.
 1912 D, 98, figs. 2-8.
 1913 B, 379.
 1913 G, 502.
 1922 D, 280.
 1922 G, 404, 448, 453.
 Jaekel, O. 1903 A, 118.
 1908 B, 467.
 1919 A, 91.
 1922 A, 24.
 Kehrer, F. A. 1896 A, 353.
 Kingsley, J. S. 1925 A, 120, 122, 246, figs. 126, 128, 259.
 Koken, E. 1898 B, 143.
 Lakjer, T. 1927 A, figs. 82, 115.
 Lucas, F. A. 1902 B, 118, figure.
 Lydekker, R. 1885 F, 10 (Eryops); 10, 11 (Rhachitomus).
 1903 D, 75.
 1912 C, 15.
 Martin, H. T. 1922 B, 104.
 Matthew, W. D. 1909 G, 92, fig. 2.
 1911 D, 197, figs.
 Mehl, M. G. 1919 A, 52.
 Miner, R. W. 1925 A, *passim*, 23 figs.
 Moodie, R. L. 1910 C, 243.
 1911 H, 239.
 1915 G, 370.
 1915 J, 318.
 1916 A, 180.
 Morton, D. J. 1926 A, 413.

- Neumayer, L. 1904 A, 121.
 Nopesa, F. 1923 E, 1047.
 1926 A, 635.
 Osborn, H. F. 1916 E, 612, figs. 22, 23.
 1917 B, 312.
 Perrier, E. 1920 A, 281.
 Raymond, P. E. 1907 A, 836.
 Rogers, A. F. 1924 A, 546.
 Romer, A. S. 1922 B, 525, 564, pls. xxxiii, xxxvii,
 xlv, xlv.
 1924 A, 122, 124, figs. 1-3.
 1925 B, 450.
 1926 A, 59.
 1928 C, 257, 258.
 Schmalhausen, J. J. 1908 A, 342.
 1917 A, 96, 107, fig. L.
 1917 B, 135.
 Schuchert, C. 1910 A, 570.
 1915 A, 802.
 Schwarz, H. 1908 A, 320.
 Sewertzoff, A. N. 1908 A, 387.
 Steiner, H. 1921 A, 534, 535.
 1922 A, 331, 340.
 Steinmann, G. 1907 A, 426, fig. 750.
 1908 A, 214.
 Stensiö, E. A. 1921 A, 141.
 Sternberg, C. H. 1909 C, 217, 227.
 1917 A, 184.
 Stromer, E. 1913 A, 61.
 Sushkin, P. P. 1927 A, 274, 280, 314, figs. 5, 6,
 13, 14.
 Thevenin, A. 1910 A, 38, fig. 15.
 Versluys, J. 1912 B, 568, fig. a.
 Villiers, C. G. S. 1922 A, 218.
 Watson, D. M. S. 1912 A, 9.
 1912 B, 584.
 1913 C, 341.
 1913 F, 956, 957.
 1914 F, 780.
 1914 G, 1004.
 1914 H, 1014.
 1916 B, 45.
 1916 C, 612, 630, figs. 1-4.
 1916 E, 83.
 1917 A, 979.
 1917 B, 2.
 1919 A, 286.
 1919 B, 3, 23, 49, 51, 64, figs. 1, 11, 29, 30.
 1921 C, 72, 73.
 1926 A, 202.
 Whittard, W. F. 1928 A, 263.
 Williston, S. W. 1909 B, 641.
 1910 D, 535.
 1910 F, 596.
 1911 D, 379.
 1914 A, 31, figs. 14, 24.
 1914 C, 57, 62, fig. 1.
 1914 E, 121.
 1915 A, 578.
 1915 B, 253.
 1916 A, 173.
 1916 B, 201, figs. 38-40.
 1918 A, 76, figs. 1, 2.
 1918 B, 87, pl. iii, text-figs. 14, 16.
 1925 A, 24, 97, 126, 136, 168, 170, 195, figs.
 10, 25, 76, 108, 136.
 Wills, L. J. 1916 A, 5, fig. 1.
 Wiman, C. 1921 A, 27.
 1922 A, 118.
 1923 B, 274.
 Zittel and Broili 1911 A, 168.
 1923 A, 172, 187, fig. 267.
 Zittel, Eastman, etc. 1902 A, 131.
- Eryops erythroliticus Cope.**
 Hay, O. P. 1902 A, 422.
 Beede, J. W. 1907 A, 118.
 Cummins, W. F. 1908 A, 744.
 Moodie, R. L. 1911 E, 252 (=E. megocephalus?).
 1916 A, 181.
 A doubtful species.
 Permian; Texas.
- Eryops latus Case.**
 Case, E. C. 1903 C, 394, fig. 2.
 Ameghino, F. 1909 A, 42, fig. 26.
 Case, E. C. 1911 B, 31.
 1915 A, 96.
 Moodie, R. L. 1911 E, 252.
 1914 A, 18.
 Stappenbeck, R. 1905 A, 405.
 Williston, S. W. 1909 B, 657, fig. 7.
 1910 D, 535.
 Permian (Wichita, Clear Fork); Texas.
- Eryops megacephalus Cope.**
 Hay, O. P. 1902 A, 422.
 Abel, O. 1919 A, 235, figs. 185, 187, 190, 205.
 1920 A, 350.
 Beede, J. W. 1907 A, 119, 139 (E. megacephalus,
 Rhachitonus valens).
 Boas, J. E. V. 1914 C, 241, fig. 8.
 Broili, F. 1904 D, 581, figs. 3, 8, 9.
 1908 D, 235, fig.
 1908 F, 51.
 1917 A, 572, figs. 16, 17.
 1927 A, 187 (E. macrocephalus).
 Broom, R. 1913 F, 579, figs. 11-16, 18.
 Case, E. C. 1902 B, 63, 65.
 1903 C, 394.
 1911 B, 28, 29, 92, 109, pl. iv, fig. 2; pls.
 vi, vii; pl. viii, figs. 1, 3, 4; pls. ix, x;
 text-figs. 24, 25, 27-33, 40.
 1912 B, 681.
 1915 A, 96, 126, 157, 165; pl. xx, fig. 2,
 text-fig. 38.
 Cope, E. D. 1885 DD, 307, figs. 170, 171.
 1885 EE, 613, fig. 3.
 1885 FF, 794, fig. 5.
 Cope and Matthew 1915 A, pls. x-xiii.
 Cossmann, M. 1900 A, 51.
 Cummins, W. F. 1908 A, 742.
 Gadow, H. 1896 A, 41, fig. 41.
 1901 B, 286.
 Gaudry, A. 1893 A, 21.
 Gould, C. W. 1901 A, 339.
 Gregory, W. K. 1911 A, 508.
 1915 D, 368, fig. 15.
 1920 A, 116, fig. 20.
 1922 A, 11, fig. 6.
 Gregory, Miner, and Noble 1923 A, 280, figs.
 1, 3.
 Heilmann, G. 1926 A, 46, fig. 32.
 Huene, F. 1902 A, 8, figs. 3, 15.

- Huene, F. 1912 D, 98, fig. 1.
 1913 B, 318, figs. 1-6.
 1922 G, 456, fig. 44.
- Hutchinson, H. N. 1910 A, 99, fig. 20 (*E. macrocephalus*).
- Jaekel, O. 1922 A, 12 (*E. megaloccephalus*).
- Koken, E. 1900 C, 144.
- Lakjer, T. 1927 A, 192, fig. 70.
- Miner, R. W. 1925 A, 150, 155, figs. 1, 4, 102.
- Moodie, R. L. 1908 G, 524, fig. 11.
 1911 E, 240.
 1914 A, 19.
- Schuchert, C. 1910 A, 570.
- Schwarz, H. 1908 A, 320.
- Sternberg, C. H. 1903 E, 94.
 1909 C, 251.
- Thevenin, A. 1910 A, 27.
- Watson, D. M. S. 1926 A, 196, fig. 1.
- Wegeman, C. H. 1915 A, 26.
- Wegner, R. N. 1922 A, 462.
- Wiman, C. 1914 A, 2, figs. 7, 8 (*E. megaloccephalus*).
 1916 B, 219.
- Zittel and Broili 1911 A, 108, fig. 299.
 1923 A, 178, figs. 275, 286, 290, 291.
- Zittel, Eastman, etc. 1902 A, 130, fig. 219.
 Permian (Clear Fork, Wichita); Texas;
 (Enid); Oklahoma: Pennsylvanian? (Upper);
 Pennsylvania).
- Eryops reticulatus Cope.**
- Hay, O. P. 1902 A, 422.
- Case, E. C. 1911 B, 30, 109, text-fig. 40.

ERYOPSOIDES Douthitt. Type *Ophiacodon grandis* Marsh.

- Douthitt, H. 1917 A, 237, 241.
 This is a genus of doubtful standing.
- Eryopsoides grandis (Marsh).**
- Hay, O. P. 1902 A, 434 (*Ophiacodon*).
- Case, E. C. 1915 A, 96 (*Eryops*).
- Douthitt, H. 1917 A, 239, 241 (*Ophiacodon*; type of *Eryopsoides*).

PARIOXYS Cope. Type *P. ferricolus* Cope.

- Cope, E. D. 1878 B, 521.
- Hay, O. P. 1902 A, 421 (*Eryops*, in part).
- Case, E. C. 1911 B, 14, 31, 81 (*Eryops*).
 1915 A, 127 (*Parioxys*).
- Cope, E. D. 1878 U.
- Watson, D. M. S. 1919 B, 4, 64.
- Williston, S. W. 1916 B, 201.
- Parioxys anatinus (Broom).**
- Broom, R. 1913 F, 591, figs. 19, 20 (*Eryops*).
- Abel, O. 1919 A, 276, fig. 204 (*Eryops*).
- Case, E. C. 1911 B, 96, pl. viii, fig. 2; text-fig. 26 (*Eryops* sp.).

ANISODEXIS Cope. Type *A. imbricarius* Cope.

- Hay, O. P. 1902 A, 423.
- Broili, F. 1904 A, 35, 47, 49.
- Case, E. C. 1911 B, 14, 33, 81.
 1915 A, 127.
- Cummins, W. F. 1908 A, 745.

- Case, E. C. 1915 A, 96.
- Cummins, W. F. 1908 A, 744.
- Douthitt, H. 1917 A, 239, 241 (= ? *Eryopsoides grandis*?).
- Moodie, R. L. 1911 E, 240.
 1914 A, 19.
- Williston and Case 1913 A, 6.
 Permian; New Mexico.
- Eryops willistoni Moodie.**
- Moodie, R. L. 1911 E, 243, pls. xli-liv.
- Case, E. C. 1915 A, 96.
- Moodie, R. L. 1911 E, 243.
 1913 A, 248.
 1914 A, 19.
- Williston, S. W. 1912 C, 3.
- Williston and Case 1912 A, 3.
 Permian (Enid); Oklahoma.

Eryops sp. indet.

- Undetermined remains of *Eryops* have been reported as follows:
- Case, E. C. 1916 B, 709. Permo-Carboniferous; New Mexico.
- Cummins, C. F. 1908 A, 740. Permian; Texas.
- Moodie, R. L. 1916 A, 181, pl. xviii, fig. 2.
 Pittsburgh Red Shale; Pennsylvania.
- Romer, A. S. 1927 A, 232. Permian; Texas.
- Watson, D. M. S. 1919 B, 3, fig. 1. Permian; Texas.
- Wegeman, C. H. 1915 A, 25. Permian (Wichita); Oklahoma.

- Mehl, M. G. 1912 C, 409 (*Ophiacodon*).
- Moodie, R. L. 1914 A, 18 (*Eryops*).
- Williston, S. W. 1911 B, 10 (*Eryops*).
 1911 D, 379 (*Ophiacodon*).
- Williston and Case 1913 A, 6 (*Eryops*).
 1913 B, 37 (*Eryops*).
 Permian (Garrison?); New Mexico.

- Watson, D. M. S. 1919 B, 4 (To *Parioxys*?).
 Permian; Texas.

Parioxys ferricolus Cope.

- Hay, O. P. 1902 A, 422 (*Eryops*).
- Beede, J. W. 1907 A, 119 (*Eryops*).
- Case, E. C. 1911 B, 32, 104, text-fig. 4.
 1915 A, 96 (*P. ferricolus*).
- Cummins, W. F. 1908 A, 744 (*Eryops*).
- Moodie, R. L. 1911 E, 240 (*Eryops*).
 1914 A, 24.
 Permian (Clear Fork); Texas.

- Lydekker, R. 1885 F, 10.
- Schuchert, C. 1910 A, 570.
- Williston, S. W. 1910 A, 271.
 1916 B, 201.

Anisodexis imbricarius Cope.

Hay, O. P. 1902 A, 423.

Beede, J. W. 1907 A, 119.

Case, E. C. 1911 B, 33, 104.

Case, E. C. 1915 A, 96.

Cummins, W. F. 1908 A, 743.

Moodie, R. L. 1911 E, 240.

1914 A, 14.

Permian (Clear Fork); Texas.

ACHELOMIDÆ Watson.

Watson, D. M. S. 1919 B, 65.

ACHELOMA Cope. Type *A. cumminsi* Cope.

Hay, O. P. 1902 A, 423.

Broili, F. 1904 A, 35, 47, 49.

1905 A, 16, 47.

1913 A, 98.

Case, E. C. 1911 B, 14, 34, 82, 104, 136.

1915 A, 127.

Cummins, W. F. 1908 A, 745.

Lydekker, R. 1885 F, 10, 11.

Romer, A. S. 1922 B, 555, fig. 5.

Schuchert, C. 1910 A, 570.

Watson, D. M. S. 1919 B, 7, 65.

Williston, S. W. 1909 B, 658.

1909 D, 129.

1910 A, 271.

1910 D, 533.

1916 B, 202.

Zittel and Broili 1923 A, 189.

By Williston this genus is referred with
doubt to the Trematopsidæ.**Acheloma casei** Broili.Broili, F. 1913 A, 98, pl. ix, figs. 1, 2 (Ache-
loma?).

Case, E. C. 1915 A, 96.

Permian (Clear Fork); Texas.

Acheloma cumminsi Cope.

Hay, O. P. 1902 A, 423.

Beede, J. W. 1907 A, 119.

Broili, F. 1913 A, 98.

Case, E. C. 1911 B, 35, 104, pl. xi, text-figs.
34, 35.

1915 A, 96.

Cummins, W. F. 1908 A, 743.

Huene, F. 1913 B, 370, fig. 55.

Mehl, M. G. 1912 C, 409.

Moodie, R. L. 1911 E, 240.

1914 A, 14.

Permian (Clear Fork); Texas.

TREMATOPSIDÆ Williston.

Williston, S. W. 1910 A, 278.

Abel, O. 1919 A, 278.

Arlt, T. 1916 A, 142 ("trematophiden").

Broili, F. 1913 A, 98.

Case, E. C. 1911 B, 66, 81, 83, 130; 14
(Trematosauridæ).

1915 A, 97.

Eastman, C. R. 1912 C, 657.

Huene, F. 1913 G, 507.

Huene, F. 1920 C, 211.

Jaekel, O. 1922 A, 23.

Mehl, M. G. 1926 A, 206.

Nopcsa, F. 1923 H, 136 ("trematopsiden").

Watson, D. M. S. 1919 B, 65.

Williston, S. W. 1910 D, 535.

1914 C, 60.

1916 B, 201.

Zittel and Broili 1923 A, 191.

TREMATOPS Williston. Type *T. milleri* Williston.

Williston, S. W. 1909 B, 636.

Abel, O. 1912 F, 138.

1919 A, 256.

1921 A, 251.

Amalitsky, V. P. 1924 B, 74.

Anonymous 1912 A, 519.

Broili, F. 1915 A, 574.

Broom, R. 1910 A, 214, 220.

1921 A, 145.

Case, E. C. 1911 B, 67, 83, 130; 14 (Tremato-
saurus).

1912 A, 203.

1915 A, 131.

Douthitt, H. 1917 A, 238.

Geol. Magazine, 1912 A, 519.

Gregory, Miner and Noble 1923 A, 285.

Heilmann, G. 1926 A, 159, fig. 113.

Huene, F. 1913 B, 379.

1913 G, 502.

1922 G, 458.

Jaekel, O. 1922 A, 22, 23.

Lakjer, T. 1927 A, 192, 196, fig. 73.

Mehl, M. G. 1926 A, 466.

Moodie, R. L. 1911 C, 377.

1912 D, 338.

1915 J, 318.

Nopcsa, F. 1923 E, 1049, fig. 8.

1926 A, 635.

Osborn, H. F. 1916 E, 614.

Romer, A. S. 1928 C, 257.

Schmalhausen, J. 1917 A, 107.

Steiner, H. 1922 A, 331, 340.

Thorpe, M. R. 1926 A, 77.

Watson, D. M. S. 1913 C, 346.

1913 D, 24.

1914 M, 348.

1917 B, 2.

1919 A, 286.

1919 B, 7, 53, 65.

Williston, S. W. 1910 A, 270, 278.

1910 D, 533, 535.

1910 F, 597.

1914 C, 62.

1914 E, 121.

1915 A, 249.

1916 B, 202, figs. 41, 42.

- Williston, S. W. 1925 A, 169, 184, 185, 195, fig. 151.
 Wiman, C. 1917 A, 235.
 Zittel and Broili 1911 A, 169.

Trematops milleri Willist.

- Williston, S. W. 1909 B, 637, figs. 1-6.
 Abel, O. 1912 F, 219, 385, 386.
 1919 A, 258, figs. 197, 207, 208.
 1920 A, 349, fig. 552.
 Broom, R. 1921 A, 144, fig. 1.
 Case, E. C. 1911 B, 67, 130, pls. xiv-xvi; text-figs. 46.
 1915 A, 31, 97, 131; text-fig. 19.
 Gilmore, C. W. 1926 A, 22, 36; text-fig. 15.
 Gordon, C. H. 1913 A, 25.
 Huene, F. 1909 D, 332.
 1913 G, 503, fig. 4.

- Mehl, M. G. 1926 A, 470.
 Moodie, R. L. 1911 E, 239, 240.
 1914 A, 27.
 Osborn, H. F. 1918 D, 686.
 Schmalhausen, J. 1917 B, 135, fig. 5.
 Steiner, H. 1921 A, 536.
 Williston, S. W. 1910 A, 278.
 1910 D, 535.
 1911 B, 142, figs. 3, 4.
 1914 C, 61, fig. 3.
 Williston and Case 1913 B, 56, text-fig. 35.
 Zittel and Broili 1911 A, 169, fig. 300.
 1923 A, 183, figs. 287, 293.
 Permian (Clear Fork); Texas.

Trematops thomasi Mehl.

- Mehl, M. G. 1926 A, 466, figs. 1-4.
 Permian (Clear Fork); Oklahoma.

ARCHEGOSAURIDÆ Fritsch.

- Fritsch, A. 1885, Fauna der Gaskohle, etc., ii, 13.
 Hay, O. P. 1902 A, 419.
 Abel, O. 1919 A, 272.
 Broili, F. 1927 D, 375, 378, pl. vii; text-figs. 3, 4.
 Gadow, H. 1896 A, 17 (Archegosauri).

ARCHEGOSAURUS Goldfuss.

- Goldfuss, G. A. 1847 B, 400.
 Hay, O. P. 1902 A, 419.
 Abel, O. 1919 A, 898, figs. 171, 196.
 Broili, F. 1908 D, 239.
 1927 D, 378, pl. vii; text-figs. 3, 4.
 Jaekel, O. 1911 A, 112, fig. 125.
 Lydekker, R. 1890 A, 177, fig. 43.
 Nicholson and Lydekker 1889 A, 1029, fig. 958.
 Owen, R. 1866 A, 158.
 Schwarz, H. 1908 A, 320.
 Whittard, W. F. 1928 A, 255, pl. iii, 3 text-figs.
 Woodward, A. S. 1898 B, 133, figs. 84, 86, 87.

Type *A. dechenii* Goldfuss.

- Zittel, K. A. 1890 (1888) A, 351, 384, figs. 328, 329, 332, 373, 377.
 Zittel and Broili 1911 A, 166, figs. 296, 297.
 1923 A, 192, fig. 298a.

Archegosaurus sp. indet.

- Cooper, J. G. 1875 B, 402. Undetermined deposit. Mare Island, California.
 Cooper stated that a tooth had been found by himself and that the identification had been made by Professor Louis Agassiz.

TRIMERORHACHIDÆ Cope.

- Hay, O. P. 1902 A, 419 (Archegosauridæ, in part).
 Abel, O. 1919 A, 275.
 1920 A, 350 ("trimerorhachiden").
 Amalitsky, V. P. 1924 A, 62.
 Arltdt, T. 1907 D, 678 (Rhachitomi).
 1912 A, 656 (Trimerorhachidæ, Rhachitomi).
 1916 A, 95, 142 ("trimerorachiden").
 Boulenger, G. A. 1902 F, 383.
 Broili, F. 1904 D, 582 ("rhachitomen").
 1913 A, 98.
 Case, E. C. 1911 B, 14, 23, 38, 80.
 1915 A, 97.
 Cope, E. D. 1891 N, 29.
 Dollo, L. 1884 D, 88.
 Huene, F. 1913 G, 506.

- Jaekel, O. 1922 A, 23.
 Lydekker, R. 1885 F, 9 (Trimerorhachidæ, Rhachitomi).
 Moodie, R. L. 1909 D, 243 (Rhachitomi).
 1910 C, 240 (Rhachitomi).
 1911 E, 240.
 Sus[c]likin, P. P. 1925 A, 180 (Rhachitomi).
 Watson, D. M. S. 1917 B, 2 (Rhachitomi).
 1919 B, 66.
 Williston, S. W. 1910 D, 535 (Trimerorhachidæ, Rhachitomi).
 1916 B, 200 (Rhachitomi); 206 (Trimerorhachidæ).
 1918 A, 75 (Rhachitomi).
 Zittel and Broili 1923 A, 192.

TRIMERORHACHIS Cope.

- Hay, O. P. 1902 A, 420.
 Abel, O. 1919 A, 274.
 Amalitsky, V. P. 1921 A, 8.
 1924 A, 51.
 Anonymous 1912 A, 519.
 Arltdt, T. 1916 A, 98.
 Broili, F. 1904 A, 30, 48, pl. iii, figs. 3-7; pl. iv, figs. 1-3.

Type *T. insignis* Cope.

- Broili, F. 1908 F, 50.
 1914 A, 164.
 1926 A, 206, 213.
 Broom, R. 1910 C, 476.
 1913 F, 563, 569.
 1913 H, 73.
 1915 B, 368.
 1917 A, 977.

- Bryant, W. L. 1919 A, 11.
 Case, E. C. 1908 C, 576, 579.
 1911 B, 14, 39, 82, 106, pl. xii, fig. 2;
 text-figs. 40-42.
 1915 A, 127, text-fig. 14.
 Cummins, W. F. 1908 A, 745.
 Dollo, L. 1893 D, 10.
 Drevermann, F. 1920 A, 91, 105.
 Eastman, C. R. 1916 A, 635.
 Gadow, H. 1901 B, 82.
 Gaudry, A. 1888 A, 2.
 Geol. Mag. 1912 A, 519.
 Gould, C. W. 1901 A, 339.
 Gregory, W. K. 1915 D, 336, fig. 3.
 1916 D, 105 (Trimerorachis).
 1917 C, 975.
 1920 A, 222.
 Hoepen, E. C. N. 1915 A, 136.
 Huene, F. 1913 B, 372.
 1922 G, 448, 453.
 Kingsley, J. S. 1925 A, 123, fig. 130.
 Lakjer, T. 1927 A, 195.
 Lydekker, R. 1885 F, 11.
 Moodie, R. L. 1915 G, 371.
 1915 J, 318.
 Osborn, H. F. 1916 E, 614.
 1917 B, 182.
 1918 D, 687.
 Romer, A. S. 1928 C, 257.
 Schuchert, C. 1910 A, 570.
 Schwartz, H. 1908 A, 320.
 Sewertzoff, A. N. 1926 D, 81.
 Stensiö, E. A. 1921 A, 142.
 Sushkin, P. P. 1927 A, 280, 284, 310.
 Watson, D. M. S. 1912 B, 586.
 1914 F, 780.
 1916 C, 631.
 1916 E, 84 (Trimerorachis).
 1919 A, 286.
 1919 B, 7, 50, 59.
 Whittard, W. F. 1928 A, 263.
 Williston, S. W. 1910 A, 272, pl. xv, fig. 6.
 1910 D, 533, 535.
 1910 F, 586.
 1913 B, 625.
 1914 A, 26, fig. 9.
 1914 D, 415, 418.
 1915 A, 578.
 1915 B, 246, figs. 3, 5, 6.
 1916 B, 207, figs. 46, 47.
 1916 C, 291, figs. 1-3.
 1917 A, 309.
 1918 A, 76, fig. 1.
 1925 A, 94, 98.
 Wills, L. J. 1916 A, 8, 17.
 Zittel and Broili 1911 A, 169.
 1923 A, 181, 192, fig. 276.

Trimerorhachis alleni Case.

- Case, E. C. 1910 A, 181.
 Abel, O. 1919 A, 275, fig. 203.
 1920 A, 351, fig. 555.
 Case, E. C. 1911 B, 47, text-fig. 7.
 1915 A, 97.
 Moodie, R. L. 1911 C, 379.
 1914 A, 27.

- Williston, S. W. 1913 B, 626, fig. 1 (This species?).
 1914 D, 416, fig. 17.
 1925 A, 28, fig. 14.
 Permian (Clear Fork); Texas.

Trimerorhachis bilobatus Cope.

- Hay, O. P. 1902 A, 420.
 Beede, J. W. 1907 A, 119.
 Broili, F. 1904 A, 30.
 Case, E. C. 1911 B, 43, text-fig. 5.
 1915 A, 97.
 Cummins, W. F. 1908 A, 741.
 Moodie, R. L. 1911 E, 240.
 1914 A, 27.
 Permian (Wichita); Texas.

Trimerorhachis conangulus Cope.

- Hay, O. P. 1902 A, 420.
 Beede, J. W. 1907 A, 120.
 Broili, F. 1904 A, 30 (T. coangulus).
 1908 F, 50 (T. coangulus).
 Broom, R. 1913 F, 578.
 Case, E. C. 1911 B, 44, 112, pl. v, fig. 6; text-fig. 6.
 1915 A, 97.
 Cummins, W. F. 1908 A, 744.
 Moodie, R. L. 1911 E, 240.
 1914 A, 27.
 Permian (Clear Fork); Texas.

Trimerorhachis insignis Cope.

- Hay, O. P. 1902 A, 420.
 Abel, O. 1919 A, 274, fig. 202.
 1920 A, 348, fig. 551.
 1922 C, 568, fig. 470.
 Beede, J. W. 1907 A, 119.
 Broili, F. 1904 A, 31.
 1908 F, 50.
 Broom, R. 1913 F, 569, figs. 4-9.
 1913 H, 74, fig. 1.
 Case, E. C. 1902 B, 64 (This species?).
 1911 B, 41, 43, 107, 112, pl. xii, fig. 4; text-figs. 5, 36-39, 41.
 1915 A, 97.
 Cope, E. D. 1891 N, 28, figs. 11, 12.
 Cope and Matthew 1915 A, pl. vii, fig. 1; pl. viii.
 Cummins, W. F. 1908 A, 744.
 Gregory, W. K. 1920 A, 115, fig. 12.
 Huene, F. 1913 B, 372, fig. 57.
 Moodie, R. L. 1911 E, 240.
 1914 A, 27.
 Osborn, H. F. 1918 D, 686.
 Williston, S. W. 1914 C, 60, fig. 2.
 1914 D, 417, figs. 18, 19.
 1915 B, 247, figs. 1, 2, 4.
 1925 A, 29, fig. 15.
 Wiman, C. 1916 B, 215.
 Permian (Wichita); Texas: (Enid); Oklahoma.

Trimerorhachis leptorhynchus Case.

- Case, E. C. 1902 B, 63, 64.
 Beede, J. W. 1907 A, 139.
 Case, E. C. 1911 B, 45.
 1915 A, 97.

Moodie, R. L. 1911 E, 240.

1914 A, 27.

Williston, S. W. 1910 D, 535.

Permian (Enid); Oklahoma.

Trimerorhachis medius Broom.

Broom, R. 1913 F, 577, fig. 10.

Permian: Locality not given.

Trimerorhachis mesops Cope.

Hay, O. P. 1902 A, 420.

Beede, J. W. 1907 A, 120.

Broili, F. 1904 A, 30.

Case, E. C. 1911 B, 46, 112, pl. xii, fig. 1.

1915 A, 97.

Cummins, W. F. 1908 A, 743.

Huene, F. 1912 B, 372, fig. 56.

Moodie, R. L. 1911 E, 240.

1914 A, 27.

Permian (Clear Fork); Texas.

Trimerorhachis sp. indet.

Cummins, W. F. 1908 A, 740. Permian; Texas.

Phillips, W. B. 1912 A, 41 (Trimerorhachis).

Permian (Wichita); Texas.

Tilton, J. L. 1926 B, 393, fig. 2 (This genus?).

Permian (Gilmore); West Virginia.

TERSOMIUS Case. Type *T. texensis* Case.

Case, E. C. 1910 A, 180.

Arlt, T. 1916 A, 98.

Broili, F. 1913 A, 98.

Case, E. C. 1911 B, 14, 51.

Moodie, R. L. 1911 C, 379.

Williston, S. W. 1916 B, 207.

Zittel and Broili 1923 A, 193.

A genus of uncertain position.

Tersomius texensis Case.

Case, E. C. 1910 A, 180, text-fig. 10.

1911 B, 51.

1915 A, 97.

Moodie, R. L. 1914 A, 26.

Permian (Clear Fork); Texas.

DISSOROPHIDÆ Willist.

Williston, S. W. 1910 A, 277.

Hay, O. P. 1902 A, 429 (Chelydosauria, in part); 492 (Otocœlidæ).

Abel, O. 1919 A, 278.

Arlt, T. 1912 A, 656 (Dissorophidæ).

1916 A, 98, 142 ("dissorophiden").

Boulenger, G. A. 1902 F, 383.

Broili, F. 1904 A, 69, 100 (Otocœlidæ).

1913 A, 98 (Dissorophidæ).

Case, E. C. 1905 A, 298 (Otocœlidæ, Chelydosauria, in part).

1905 B, 127 (Otocœlidæ, Chelydosauria, in part).

1907 E, 157 (Chelydosauria, in part).

1908 D, 565 (Chelydosauria, in part).

1911 B, 57 (Otocœlidæ); 14, 51, 80, 116 (Dissorophidæ).

Case, E. C. 1915 A, 97, 107.

Case and Williston 1913 A, 7 (Dissorophidæ, Aspidosauridæ).

Eastman, C. R. 1912 C, 657.

Hay, O. P. 1908 A, 29 (Otocœlidæ).

Huene, F. 1913 G, 507.

1920 C, 211.

Jaekel, O. 1922 A, 25.

Moodie, R. L. 1911 E, 241.

Watson, D. M. S. 1919 B, 65 (Dissorophidæ, Dissorophinæ).

Williston, S. W. 1908 A, 140 (Otocœlidæ).

1910 D, 535.

1914 B, 56 (Dissorophidæ, Dissorophinæ).

1916 B, 202 (Dissorophidæ, Dissorophinæ).

Zittel and Broili 1923 A, 190.

DISSOROPHUS Cope. Type *D. multicinctus* Cope.

Hay, O. P. 1902 A, 420 (Dissorophus); 430 (Otocœlus).

Abel, O. 1919 A, 280.

Anonymous 1912 A, 520.

Broili, F. 1904 A, 43 (Dissorophus; 100 (Otocœlus).

1913 A, 97.

Broom, R. 1903 D, 292 (Otocœlus).

Case, E. C. 1905 A, 298 (Otocœlus).

1905 B, 127 (Otocœlus).

1907 D, 558 (Otocœlus).

1908 C, 579.

1908 D, 565 (Otocœlus).

1911 B, 14, 52, 82, 115 (Dissorophus); 54, 58, 59 (Otocœlus a syn.).

1915 A, 110, 128, 130.

Cummins, W. F. 1908 A, 745.

Geol. Mag. 1912 A, 520.

Goette, A. 1899 A, 426.

Gregory, W. K. 1917 B, 313, 317.

Hay, O. P. 1908 A, 29 (Otocœlus).

Hoepen, E. C. N. 1915 A, 140 (Dissorophus).

Huene, F. 1913 B, 379.

1913 G, 502.

Jaekel, O. 1922 A, 25.

Lakjer, T. 1927 A, 192.

Moodie, R. L. 1908 A, 30.

1909 E, 39.

Nopce, F. 1926 A, 635.

Schuchert, C. 1910 A, 570.

Stappenbeck, R. 1905 A, 430 (Otocœlus).

Sternberg, C. H. 1909 C, 242 (Otocœlus).

Watson, D. M. S. 1913 C, 346.

1919 B, 8, 50.

Williston, S. W. 1910 A, 259, 278.

1910 D, 532, 534, 535 (Dissorophus); 534 (Otocœlus).

1914 B, 51, 56.

1914 E, 121.

1916 B, 202.

Zittel and Broili 1911 A, 169 (Dissorophus, Otocœlus).

Zittel and Broili 1923 A, 170, 191, fig. 264.
Zittel and Eastman 1902 A, 181 (Otocœlus).

Dissorophus multicinctus Cope.

Hay, O. P. 1902 A, 420 (D. multicinctus, D. articulatus); 430 (Otocœlus testudineus, O. mimeticus).
Beede, J. W. 1907 A, 120 (Otocœlus testudineus, O. mimeticus).
Case, E. C. 1911 B, 54, 59, 115, 117, pl. xiii, pl. xxiii, figs. 11, 12; text-figs. 10, 45 (Otocœlus testudineus, O. mimeticus as syns.).
1915 A, 97, 129, text-fig. 16 (D. articulatus, Otocœlus mimeticus as syns.).
Cummins, W. F. 1908 A, 744 (D. multicinctus; O. mimeticus; Otocœlus testudineus).

Gadow, H. 1901 B, 82.
Huene, F. 1913 B, 369 (D. mimeticus).
1922 G, 406 (Dissorophus).
Moodie, R. L. 1908 A, 30 (D. multicinctus, D. articulatus).
1911 C, 376.
1911 E, 241 (D. multicinctus; D. mimeticus).
1914 A, 18 (D. multicinctus); 23 (Otocœlus testudineus, O. mimeticus).
Williston, S. W. 1910 A, 277.
1910 D, 535, pls. i-iii.
1914 B, 56.
Permian (Clear Fork); Texas.

CACOPS Willist. Type *C. aspidephorus* Willist.

Williston, S. W. 1910 A, 253, 278.
Abel, O. 1912 F, 385, 387.
1919 A, 256, 261, 279.
Anonymous 1912 A, 519, 520.
Broili, F. 1913 A, 97.
1913 C, 529.
1915 A, 574.
1915 C, 285.
1926 A, 208.
Case, E. C. 1911 B, 14, 62, 83, 119.
1912 A, 203.
1915 A, 110, 128, 129.
Case and Williston 1913 A, 7.
Geol. Mag. 1912 A, 519, 520.
Gregory, W. K. 1917 A, 381.
1917 B, 317.

Hoepen, E. C. N. 1915 A, 141.
Huene, F. 1912 D, 103.
1913 B, 379.
1913 G, 502.
1922 G, 453.

Jaekel, O. 1922 A, 22, 23.
Kingsley, J. S. 1925 A, 37, fig. 41.
Lakjer, T. 1927 A, figs. 73, 84.
Moodie, R. L. 1915 J, 318.
Morton, D. J. 1926 A, 413.
Nopcea, F. 1923 E, 1047.
1923 H, 14, pl. v, fig. 1.
1926 A, 635.

Osborn, H. F. 1916 E, 613.
1917 B, 182, fig.

Romer, A. S. 1922 B, 543.
1928 C, 257.

Schmalhausen, J. 1917 A, 107.
Schuchert and Levene 1927 A, 290, fig.
Thorpe, M. R. 1928 A, 77.
Watson, D. M. S. 1913 C, 346.
1914 D, 167.
1916 E, 84.
1917 B, 2.

Watson, D. M. S. 1919 A, 286.
1919 B, 8, 50, 53, 65.
1926 A, 204, 241.

Williston, S. W. 1910 D, 526, 535.
1911 B, 42.
1914 A, 35, fig. 18.
1914 B, 51, 56.
1914 C, 68.
1914 E, 121.
1916 B, 202, fig. 43.
1918 B, 91, fig. 16.
1925 A, 25, 125, 126, 143, 150, figs. 11, 96, 130.
Zittel and Broili 1911 A, 169.
1923 A, 190.

Cacops aspidephorus Willist.

Williston, S. W. 1910 A, 253, pls. vi-xiv, xvii.
Abel, O. 1919 A, 254, figs. 195, 209, 210.
1920 A, 352, fig. 556.
1921 A, 250, fig. 92.

Broili, F. 1926 A, 208, figs. 2, 3.
Case, E. C. 1911 B, 63, 119, pls. xvii, xviii, pl. xix, fig. 1, pls. xx-xxii, pl. xxiii, figs. 1-10, pl. xxiv, fig. 3.
1915 A, 97, 129, text-fig. 17.

Frassetto, F. 1915 A, 14, fig. 6.
Gilmore, C. W. 1926 A, 21, 36, text-fig. 14.
Gregory, W. K. 1915 D, 375, fig. 15.

Jaekel, O. 1911 A, 114, fig. 129.
Lull, R. S. 1917 B, 493, fig. 146.
1918 C, 125, fig.

Lydekker, R. 1911 A, 688, pl. (C. aspidephorus).
Moodie, R. L. 1911 C, 377.

1911 E, 241.
Williston, S. W. 1910 D, 528, 535.
1914 B, 56.
1914 C, 62, fig. 4.

Zittel and Broili 1923 A, 181.
Permian (Clear Fork); Texas.

ASPIDOSAURIDÆ Case.

Case, E. C. 1910 A, 179.
Abel, O. 1919 A, 280.
Arlt, T. 1912 A, 656.
1916 A, 98, 142 ("aspidosauriden").
Broili, F. 1913 A, 98.
Case, E. C. 1910 A, 179.

Case, E. C. 1911 B, 14, 63, 80, 83, 116.
1915 A, 97, 107.
Case and Williston 1913 A, 7.
Huene, F. 1913 G, 507.
Watson, D. M. S. 1919 B, 65 (Aspidosaurinæ).
Williston, S. W. 1914 B, 56 (Aspidosaurinæ).
1916 B, 203 (Aspidosaurinæ).

ASPIDOSAURUS Broili. Type *A. chiton* Broili.

- Broili, F. 1904 A, 40.
 Abel, O. 1919 A, 280.
 Annalitsky, V. P. 1924 B, 74.
 Case, E. C. 1911 B, 14, 63, 83, pl. xix, fig. 2.
 1915 A, 110, 130.
 Jaekel, O. 1922 A, 25.
 Osborn, H. F. 1916 E, 614.
 1917 B, 182.
 Watson, D. M. S. 1919 B, 7, 50.
 Williston, S. W. 1910 A, 259, 271.
 1910 D, 535.
 1911 B, 12.
 1911 D, 379.
 1914 B, 56.
 1915 A, 578.
 1916 B, 203.
 Zittel and Broili 1911 A, 169.
 1923 A, 170, 190, fig. 263.

Aspidosaurus apicalis (Cope).

- Hay, O. P. 1902 A, 422 (Zatrachys).
 Broili, F. 1904 A, 43 (Zatractus).
 Case, E. C. 1907 C, 665, fig. 1 (Zatrachys).
 1911 B, 65, text-fig. 15.
 1915 A, 97.
 Cummins, W. F. 1908 A, 744 (Zatrachys).
 Moodie, R. L. 1911 E, 240.
 1914 A, 15.
 Williston, S. W. 1910 A, 260 (Zatrachys).
 1911 B, 135 (Syn? of *Platyhystrix rugosus*).
 1914 B, 55.
 Permian; New Mexico.

Aspidosaurus chiton Broili.

- Broili, F. 1904 A, 40, pl. vi, figs. 6-19; text-fig. 2.
 Case, E. C. 1911 B, 63, pl. v, fig. 5; text-fig. 13.
 1915 A, 97, 130, text-fig. 18.
 Moodie, R. L. 1911 E, 241.
 1914 A, 15.

BROIPELLUS Willist. Type *B. texensis* Willist.

- Williston, S. W. 1914 B, 49, 56.
 Abel, O. 1919 A, 280.
 Case, E. C. 1915 A, 110, 130.
 Nopcea, F. 1923 E, 1052.
 Osborn, H. F. 1918 D, 687.
 Watson, D. M. S. 1919 B, 7, 50, 53, 65.
 Williston, S. W. 1915 B, 575.
 1916 A, 165.
 1916 B, 203, fig. 44.

Broiliellus peltatus Willist.

- Williston, S. W. 1911 B, 13, pl. xxxii, fig. 7 (Aspidosaurus?).

ALEGEINOSAURUS Case. Type *A. aphthitos* Case.

- Case, E. C. 1911 B, 14, 60, 83.
 Case, E. C. 1915 A, 110, 128.
 Watson, D. M. S. 1919 B, 7, 65.
 Williston, S. W. 1914 B, 55, 56.
 1916 B, 203.

Alegeinosaurus aphthitos Case.

- Case, E. C. 1911 B, 60, fig. 12.

Williston, S. W. 1910 D, 535.

1914 B, 56.

Permian (Clear Fork); Texas.

Aspidosaurus crucifer Case.

- Case, E. C. 1903 C, 399, fig. 5 (Zatrachys).
 1907 C, 665, fig. 2 (Zatrachys).
 1911 B, 66, text-fig. 15.
 1915 A, 97, 130.
 Moodie, R. L. 1914 A, 15.
 Watson, D. M. S. 1919 B, 8 (*A. crueiger*).
 Williston, S. W. 1910 A, 261 (Zatrachys).
 1914 B, 55.
 Permian (Wichita?, Clear Fork?); Texas:
 (Enid); Oklahoma.

Aspidosaurus glascoeki Case.

- Case, E. C. 1910 A, 179, text-fig. 9.
 1911 B, 64, text-fig. 14.
 1915 A, 97.
 Moodie, R. L. 1914 A, 15.
 Watson, D. M. S. 1919 B, 8.
 Williston, S. W. 1911 B, 14.
 1914 B, 55.
 Permian (Clear Fork); Texas.

Aspidosaurus novomexicanus Willist.

- Williston, S. W. 1911 B, 12, pl. xxxviii, fig. 1.
 Case, E. C. 1915 A, 97.
 Case and Williston 1913 A, 7, fig. 3.
 Huene, F. 1913 B, 379.
 Moodie, R. L. 1914 A, 15.
 Watson, D. M. S. 1914 D, 167.
 Williston, S. W. 1911 D, 379.
 1914 B, 51, 56.
 Permian; New Mexico.

Aspidosaurus sp. indet.

- Wegeman, C. H. 1915 A, 25. Permian (Wichita); Oklahoma.

Case, E. C. 1915 A, 97, 167.

Moodie, R. L. 1914 A, 15 (Aspidosaurus).

Williston, S. W. 1914 B, 54 (Aspidosaurus); 56 (Broiliellus).

Permian (Clear Fork); Texas.

Broiliellus texensis Willist.

- Williston, S. W. 1914 B, 50, 56, figs. 1-3.
 Case, E. C. 1915 A, 97, 130.
 Gregory, W. K. 1920 A, 115, fig. 16.
 Permian (Clear Fork); Texas.

Case, E. C. 1907 C, 665, figs. 3-6 (Zatrachys apicalis?).

1915 A, 97.

Miner, R. W. 1925 A, 165, fig. 6.
 Moodie, R. L. 1914 A, 14 (Alegeinosaurus).

Williston, S. W. 1914 B, 56.
 Permian (Clear Fork); Texas.

ZATRACHYDIDÆ Williston.

Williston, S. W. 1910 D, 535.

Abel, O. 1919 A, 281 (Zatrachydæ).

Jaekel, O. 1922 A, 25 (Zatrachydæ).

Watson, D. M. S. 1919 B, 66 (Zatrachydæ).

Williston, S. W. 1914 B, 55.

1916 B, 203.

Zittel and Broili 1923 A, 191 (Zatrachidæ).

ZATRACHYS Cope. Type *Z. serratus* Cope.

Hay, O. P. 1902 A, 422.

Abel, O. 1919 A, 281.

Arlt, T. 1916 A, 98.

Broili, F. 1904 A, 35, 43, 47, 49 (Zatrachis).

Broom, R. 1913 F, 592.

Case, E. C. 1911 B, 14, 47, 82, 113, text-fig. 43.
1915 A, 111, 128.

Cummins, W. F. 1908 A, 745.

Dollo, L. 1884 D, 88.

Gadow, H. 1901 B, 82 (Zatrachys).

Lakjer, T. 1927 A, 195.

Lydekker, R. 1885 F, 10, 12.

Nopesa, F. 1926 A, 635.

Schuchert, C. 1910 A, 570.

Stensiö, E. A. 1921 A, 142.

Watson, D. M. S. 1919 B, 9, 66.

Williston, S. W. 1910 A, 260.

1910 D, 532.

1915 A, 578.

1916 B, 204.

Zittel and Broili 1923 A, 191.

Zatrachys conchigerus Cope.

Hay, O. P. 1902 A, 422.

Beede, J. W. 1907 A, 120.

Case, E. C. 1911 B, 50.

1915 A, 97.

Cummins, W. F. 1908 A, 744.

Moodie, R. L. 1911 E, 240.

1914 A, 28.

Permian (Clear Fork); Texas.

Zatrachys microphthalmus Cope.

Hay, O. P. 1902 A, 422.

Abel, O. 1919 A, 282, fig. 211.

Beede, J. W. 1907 A, 120.

Broili, F. 1904 A, 43 (Zatrachis).

Broom, R. 1913 E, 531.

1913 F, 592, fig. 21.

Case, E. C. 1915 A, 128, text-fig. 15.

Cummins, W. F. 1908 A, 743.

Huene, F. 1913 B, 370, fig. 54.

Moodie, R. L. 1911 E, 240.

Permian (Clear Fork); Texas.

Zatrachys serratus Cope.

Hay, O. P. 1902 A, 422.

Beede, J. W. 1907 A, 119.

Broom, R. 1913 F, 594.

Case, E. C. 1911 B, 48, 113, text-figs. 8, 43.

1915 A, 97.

Cummins, W. F. 1908 A, 742.

Huene, F. 1922 G, 453.

Moodie, R. L. 1911 E, 240.

1914 A, 28.

Watson, D. M. S. 1919 B, 8 ("A." serratus).

Permian (Wichita); Texas.

PLATYHYSTRIX Willist. Type *Ctenosaurus rugosus* Case.

Williston, S. W. 1911 D, 379

Abel, O. 1919 A, 281 (Platyhystrix); 370 (Ctenosaurus).

Case, E. C. 1915 A, 111, 115, 122, 144.

Drevermann, F. 1915 A, 405 (Ctenosaurus).

Huene, F. 1919 A, 180.

Schuchert, C. 1910 A, 570 (Ctenosaurus).

Watson, D. M. S. 1919 B, 9, 66.

Williston, S. W. 1911 B, 135.

1915 A, 578.

1916 B, 204, fig. 45.

Platyhystrix rugosus (Case).

Case, E. C. 1910 A, 176 (Ctenosaurus).

1915 A, 99.

Williston, S. W. 1911 B, 135, pl. xxxvi, fig. 1;

pl. xxxvii, fig. 6.

1911 D, 379.

Williston and Case 1913 A, 6.

Permian; New Mexico.

Platyhystrix sp. indet.

Cummins, W. F. 1908 A, 740 (Ctenosaurus).

Permian; Texas.

GONIOCARA, genus novum. Type *Goniocephalus willistoni* Broili.

Broili, F. 1913 A, 100 (Goniocephalus; preoccupied).

Williston, S. W. 1916 B, 208 (Goniocephalus).

The position of this genus is doubtful. It may be a reptile.

Goniocara willistoni (Broili).

Broili, F. 1913 A, 100, pl. ix, figs. 3, 4 (Goniocephalus).

Case, E. C. 1915 A, 99 (Goniocephalus).

Permian (Clear Fork); Texas.

Suborder LABYRINTHODONTES Meyer.

Meyer, H. 1842 A, 301.

Hay, O. P. 1902 A, 417 (Apœospondyli, part).

Abel, O. 1921 A, 251 ("labyrinthodonten").

Allis, E. P. 1905 A, 494.

Analitsky, V. P. 1924 A, 50 ("labyrinthodonts").

Arlt, T. 1907 D, 661 (Labyrinthodontidæ); 633 (Stereospondyli).

Arlt, T. 1912 A, 662, 663 (Labyrinthodontidæ).

1916 A, 100, 143 ("labyrinthodonten").

Brandt, J. F. 1865 A, 8 ("labyrinthodonten").

Branson, E. B. 1905 B, 568 (Labyrinthodontidæ).

Branson and Mehl 1928 B, 301 ("labyrinthodonts").

- Branson and Mehl 1928 C ("labyrinthodonts").
 Boulenger, G. A. 1902 F, 383 (Labyrinthodonta).
 1904 C, 479, 480.
 Broili, F. 1913 C, 530 (Stereospondyli).
 1926 A, 213 ("labyrinthodonten").
 Broom, R. 1899 A, 766 (Labyrinthodonta).
 1903 E, 136 ("labyrinthodonts").
 1903 G, 145 ("labyrinthodonts").
 1903 I, 557 ("labyrinthodonts").
 1909 B, 165 ("labyrinthodonts").
 1911 A, 917 ("labyrinthodonts").
 Carus, V. 1875 A, 485 (Labyrinthodonta).
 Cope, E. D. 1880 U, 145 ("labyrinthodontes").
 1891 N, 30 (Labyrinthodontidæ).
 Dollo, L. 1884 D, 91.
 1885 C, 306 (Labyrinthodonta).
 Fraas, E. 1901 D, 318 (Labyrinthodon).
 1913 A, 275 ("labyrinthodonten").
 Gadow, H. 1901 B, 82 (Labyrinthodonta).
 Gaupp, E. 1912 A, 563, 566 ("labyrinthodonten").
 Gervais, P. 1859 A, 504 (Labyrinthodonta).
 Giebel, C. G. 1855 A, 95 (Labyrinthodonta).
 Green, J. R. 1861 A, 219, 227 (Labyrinthodonta).
 Gregory, W. K. 1915 D, 365 (Stereospondyli).
 Haeckel, E. 1868 A, 448 (Labyrinthodonta).
 Heilprin, A. 1887 A, 310 (Labyrinthodonta).
 Huene, F. 1902 A, 68 (Stereospondyli).
 1913 G, 506 (Stereospondyli).
 1920 C, 211 (Stereospondyli).
 1922 G, 435 ("labyrinthodonten").
 1926 A, 262 (Stereospondyli).
 Huxley, T. H. 1865 C, 3 ("labyrinthodonts").
 1870 F, 528 ("labyrinthodonts").
 1872 A, 150, seq. (Labyrinthodonta).
 1875 C, 751, 761 (Labyrinthodonta).
 Jaekel, O. 1922 A, 11.
 Jaekel and Philippi 1903 A, 14 (Labyrinthodonta).
 Lankester, E. R. 1905 A, 246 ("labyrinthodonts").
 Makowsky, A. 1876 A, 161 ("labyrinthodonten").
 Matthew, G. F. 1903 A, 109 ("labyrinthodonts").
 Meyer, H. 1845 C, 282 (Labyrinthodontes).
 Miall, L. C. 1874 C, 417 (Labyrinthodonta).
 Moodie, R. L. 1908 B, 363 (Stereospondyli).
 1908 G, 516, 520 (Stereospondylia).
 1909 C, 121 (Stereospondyli).
 1909 D, 243 (Stereospondyli).
 1909 E, 39 (Stereospondyli).
 Moodie, R. L. 1910 B, 721 (Labyrinthodontidæ).
 1911 A, 494 (Labyrinthodontidæ).
 1915 F, 189, 190 (Stereospondylia).
 1915 H, 638 (Stereospondylia).
 1916 A, 5, 35, 198 (Stereospondylia).
 1922 B, 332 ("labyrinthodonts").
 Newton, E. F. 1900 A, 645 (Labyrinthodonta).
 Osborn, H. F. 1899 J, 415 (Stegoecephala).
 Owen, R. 1845 B, 195 (Labyrinthodonta); pls. lxxiii-lxiv b ("labyrinthodonts").
 1860 A, 158 (Labyrinthodonta).
 1860 E, 183 (Labyrinthodontes).
 1866 A, 14 (Labyrinthodonta).
 1876 D, 69 (Labyrinthodonta).
 Reynolds, S. H. 1897 A, 545, fig. 27 (Labyrinthodonta).
 Romer, A. S. 1925 A, 180 (Labyrinthodonta).
 Schwarz, H. 1908 A, 332 (Stereospondyli).
 Seeley, H. G. 1879 A, 180.
 1899 B, 69 ("labyrinthodonts").
 1905 A, 219 ("labyrinthodonts").
 Stensiö, E. A. 1921 A, 140 (Stereospondyli).
 Stromer, E. 1912 A, 60 (Labyrinthodonti).
 Sushkin, P. P. 1927 A, 270, 310 (Stereospondyli).
 Terra, P. 1911 A, 225 (Labyrinthodonta).
 Thevenin, A. 1910 A, 4 ("labyrinthodontes").
 Tims, H. W. M. 1903 A, 133 (Labyrinthodonta).
 Vogt, C. 1854 A, 677 ("labyrinthodontier").
 Watson, D. M. S. 1917 C, 168, 181 (Labyrinthodonta); 169 (Stereospondyli).
 1919 A, 287 (Labyrinthodonta).
 1919 B, 21, 49, 50, 67 (Stereospondyli); 64 (Labyrinthodonta).
 1919 C, 239 ("labyrinthodonts").
 1921 A, 333 (Labyrinthodonta).
 1921 C, 73 (Labyrinthodonta).
 1926 A, 190, 194, 199 ("labyrinthodonts," Stereospondyli).
 Wilckens, O. 1911 A, 708 ("labyrinthodonten").
 Williston, S. W. 1905 D, 297 (Labyrinthodonta).
 1909 A, 302 ("labyrinthodonts").
 Wills, L. J. 1916 A, 5 ("labyrinthodonts").
 Wiman, C. 1914 A, 1 ("labyrinthodonten").
 1915 A, 1 ("labyrinthodonten").
 Woodward, A. S. 1904 D, 170 ("labyrinthodonts").
 1924 A, 117 ("labyrinthodonts").
 Wyman, J. 1843 B, 131 ("labyrinthodonts").
 Zittel, K. A. 1890 A, 397 (Stereospondyli).
 Zittel and Broili 1911 A, 171 (Stereospondyli).
 1923 A, 193 (Stereospondyli).

MASTODONSAURIDÆ Nicholson and Lydekker.

- Nicholson and Lydekker 1889 A, 1035.
 Hay, O. P. 1902 A, 423.
 Carus, V. 1875 A, 486 (Mastodontosauria).
 Gregory, W. K. 1917 B, 313.
 Huene, F. 1913 G, 508 (Euglypta).
 1920 F, 453, 464.
 Huxley, T. H. 1863 C, 570 (Mastodontosauria).
 Jaekel, O. 1922 A, 23.
 Miall, L. C. 1875 A, 149 (Euglypta).
 Moodie, R. L. 1916 A, 198.
 Quenstedt, F. A. 1861 A, 297 ("mastodontosaurier").
 Terra, P. 1911 A, 226 (Mastodontosaurii).
 Watson, D. M. S. 1919 B, 68.
 Zittel and Broili 1923 A, 196.

MASTODONSAURUS Jaeger. Type *Salamandroides giganteus* Jaeger.

- Hay, O. P. 1902 A, 423.
 Abel, O. 1912 F, 212.
 1914 E, 392.
 Abel, O. 1919 A, 247, fig. 191; 287, fig. 220.
 Allis, E. P. 1919 B, 83.
 Arltdt, T. 1916 A, 100.

Branson, E. B. 1905 B, 568.
 Broili, F. 1904 A, 33.
 1904 D, 579.
 1927 E, 20.
 Bronn, H. G. 1849 A, 690.
 Broom, R. 1908 D, 373.
 Case, E. C. 1922 B, 24, text-fig. 6.
 Credner, H. 1893 A, 673.
 Dollo, L. 1885 C, 307.
 Drevermann, F. 1920 A, 90, 104.
 Fejérváry, G. J. 1921 C, 10.
 Fraas, E. 1913 A, 279.
 Gadow, H. 1896 A, 20 (This genus?).
 Gaudry, A. 1885 B, 49.
 Gaupp, E. 1894 A, 102.
 1908 B, 524.
 1912 A, 563.
 Gervais, P. 1859 A, 506.
 Giebel, C. G. 1855 A, 96, pls. xl, xli.
 Hitchcock and Grier 1927 A, 192.
 Huene, F. 1902 A, 14.
 1909 D, 335, fig. 11.
 1913 G, 505, figs. 7, 10.
 1920 F, 453, figs. 10, 11.
 1922 G, 449, 451, 458, figs. 2-12.
 Huxley, T. H. 1862 A, liii.
 1863 C, 568.
 Jaeger, G. F. 1838 A, 547.
 Jaekel, O. 1922 A, 12.
 Kehrer, F. A. 1896 A, 353.
 Kingsley, J. S. 1902 B, 333.
 1925 A, 121, fig. 127.
 Koken, E. 1893 B, 270.
 Lakjer, T. 1927 A, 198.
 Lucas, F. A. 1901 B, 376.
 Lydekker, R. 1885 F, 6, 12.
 Matthew, W. D. 1923 C, 405.
 Meunier, S. 1903 A, 775 ("mastodonsaure").

DICTYOCEPHALUS Leidy. Type *D. elegans* Leidy.

Hay, O. P. 1902 A, 423.
 Arldt, T. 1916 A, 100.
 Branson, E. B. 1905 B, 568, 590.
 Huene, F. 1926 E, 6.
 Zittel and Broili 1911 A, 171.

Dictyocephalus elegans Leidy.

Hay, O. P. 1902 A, 423.

EUPELOR Cope. Type *Mastodonsaurus durus* Cope.

Hay, O. P. 1902 A, 423.
 Arldt, T. 1916 A, 100.
 Branson, E. B. 1905 B, 568, 591.
 Broili, F. 1921 A, 342.

Eupelor durus Cope.

Hay, O. P. 1902 A, 423.

PARIOSTEGUS Cope. Type *P. myops* Cope.

Hay, O. P. 1902 A, 423.
 Arldt, T. 1916 A, 100.
 Branson, E. B. 1905 B, 592.

Pariostegus myops Cope.

Hay, O. P. 1902 A, 423.
 Branson, E. B. 1905 B, 594.

Meyer, H. 1842 A, 301.
 Miall, L. C. 1874 C, 418-435, pls. xxvi-xxviii.
 1875 C, 23.
 Miner, R. W. 1925 A, 161.
 Moodie, R. L. 1910 B, 721.
 1911 H, 239.
 1912 E, 34.
 1915 J, 318, fig. 7.
 Nicholson and Lydekker 1889 A, 1035.
 Nopesa, F. 1923 E, 1052.
 1926 A, 635.
 Owen, R. 1845 B, 196, pl. lxiii, fig. 1 (Syn. of
 Labyrinthodon).
 Romer, A. S. 1925 A, 180.
 Schwarz, H. 1908 A, 322.
 Seitz, A. L. L. 1907 A, 249.
 Stickler, L. 1899 A, 85.
 Sushkin, P. P. 1927 A, 314.
 Thevenin, A. 1910 A, 36, fig. 21.
 Watson, D. M. S. 1914 C, 396.
 1916 E, 84.
 1919 B, 36, 49, 60, fig. 22.
 Wills, L. J. 1916 A, 16.
 Wiman, C. 1914 A, 6, fig. 4.
 Woodward, H. 1904 H, 143.
 Zittel and Broili 1911 A, 172.
 1923 A, 177, 196, figs. 274, 282, 300.

Mastodonsaurus sp. indet.

Hay, O. P. 1902 A, 423.
 Branson, E. B. 1905 B, 595.
 Dames, W. 1899 H, 152.
 Lucas, F. A. 1901 B, 376. Triassic; Arizona.
 Moodie, R. L. 1911 A, 495.
 1911 H, 239.
 1916 A, 198, pl. xxi, fig. 6.
 Sauvage, H. E. 1901 B, 9 ("labyrinthodonte").
 Watson, D. M. S. 1919 B, 21 (This genus?).

Huene, F. 1920 F, 458.
 Jaekel, O. 1922 A, 11.
 Lyman, B. S. 1894 A, 207.
 Moodie, R. L. 1911 A, 495.
 1914 A, 17.
 Schuchert, C. 1910 A, 579.
 Watson, D. M. S. 1919 B, 48.
 Triassic (Newark); North Carolina.

Huene, F. 1921 B, 572, figs. 16-18. (This genus
 and species?).
 Lyman, B. S. 1894 A, 212.
 Moodie, R. L. 1911 A, 495.
 1914 A, 19.
 Watson, D. M. S. 1919 B, 48.
 Triassic (Newark); Pennsylvania.

Huene, F. 1920 F, 459.
 Lyman, B. S. 1894 A, 207.
 Moodie, R. L. 1911 A, 495.
 1914 A, 24.
 Schuchert, C. 1910 A, 579.
 Watson, D. M. S. 1919 B, 48.
 Triassic (Newark); North Carolina.

METOPOSAURIDÆ Watson.

Watson, D. M. S. 1919 B, 67.
Huene, F. 1920 F, 456, 464.

Jaekel, O. 1922 A, 11, 23.
Zittel and Broili 1923 A, 195.

METOPOSAURUS Lydekker. Type *Labyrinthodon diagnosticus* Owen.

Lydekker, R. 1890 A, 152 (To replace *Metopias* Meyer, preoccupied).
Abel, O. 1919 A, 257, 290, fig. 217 (Metopias).
1920 A, 352, fig. 554 (Metopias).
Amalitsky, V. P. 1921 A, 4.
1924 A, 50, 52.
Arlt, T. 1916 A, 100.
Case, E. C. 1922 B, 21, text-fig. 6.
Dollo, L. 1885 D, 630 (Metopias).
Drevermann, F. 1920 A, 94, 104 (Metopias).
Fejérváry, G. J. 1921 C, 10.
Fraas, E. 1889 A, 148 (Metopias).
Gaudry, A. 1885 B, 49 (Metopias).
1890 C, 171, fig. 265 (Metopias).
Huene, F. 1920 F, 456, fig. 13.
1922 G, 396, figs. 1, 36.
1922 H, 152.
Jaekel, O. 1911 A, 112 (Metopias).
1922 A, 5.
Kingsley, J. S. 1902 B, 333 (Metopias).
Lakjer, T. 1927 A, 192, 198 (Metopias).
Lucas, F. A. 1904 A, 193.
Meyer, H. 1842 A, 302 (Metopias).
Osborn, H. F. 1917 B, 183 (Metopias).
Owen, R. 1860 E, 196 (Labyrinthodon).
Sushkin, P. P. 1927 A, 314 (Metopias).
Watson, D. M. S. 1916 E, 85.
1919 B, 32, 50, figs. 18, 20.
1926 A, 191.
Williston, S. W. 1905 D, 297.
Zittel, K. A. 1890 A, 402, figs. 392, 393 (Metopias).
Zittel and Broili 1911 A, 172, fig. 304 (Metopias).

Zittel and Broili 1923 A, 195.
Zittel, Eastman, etc. 1902 A, 223, fig. 224 (Metopias).

Metoposaurus fraasi Lucas.

Lucas, F. A. 1904 A, 194, pl. iii.
Branson, E. B. 1905 B, 569, 589.
Broili, F. 1921 A, 342.
Case, E. C. 1915 A, 75.
1920 A, 2 (No name).
1922 B, 23, text-fig. 5.
Cross, W. 1908 A, 113.
Cross and Howe 1905 A, 480.
Darton, N. H. 1910 A, 42 (M. frassi).
Herbert, H. E. 1917 A, 34, 46.
Huene, F. 1920 F, 457.
1926 E, 3, 4, 6.
Lucas, F. A. 1901 B, 376 (Mastodonsaurus?).
Merrill, G. P. 1907 A, 74.
Moodie, R. L. 1911 A, 495.
1914 A, 22.
Zittel and Broili 1911 A, 172.
1923 A, 196.
Triassic (Chinle); Arizona.

Metoposaurus jonesi Case.

Case, E. C. 1920 A, 1-3, pl. i.
1922 B, pl. ii; text-fig. C (This genus?).
Huene, F. 1922 H, 149.
1926 E, 5.
Triassic (Dockum); Texas.

ANASCHISMA Branson. Type *A. browni* Branson.

Branson, E. B. 1905 B, 569, 570.
Abel, O. 1919 A, 285.
Allis, E. P. 1919 B, 82.
Amalitsky, V. P. 1924 A, 56.
Arlt, T. 1916 A, 100.
Broom, R. 1913 H, 73.
Case, E. C. 1922 B, 13, 21.
Gaupp, E. 1912 A, 565.
Huene, F. 1926 E, 4.
Jaekel, O. 1922 A, 14, 21.
Lakjer, T. 1927 A.
Moodie, R. L. 1910 B, 721.
1912 E, 34.
Versluys, J. 1912 B, 552.
Watson, D. M. S. 1912 B, 584.
1913 F, 957.
1919 B, 35, 50.
Wiman, C. 1914 A, 6, fig. 6 (Anaschisma).
1916 B, 214.
Zittel and Broili 1911 A, 171.
1923 A, 196.

Anaschisma brachygnatha Branson.

Branson, E. B. 1905 B, 570, figs. 4, 9.
Huene, F. 1920 F, 458.
1922 H, 148.
1926 E, 4.
Jaekel, O. 1923 A, 11.
Moodie, R. L. 1908 G, 528.
Triassic (Popo Agie); Wyoming.

Anaschisma browni Branson.

Branson, E. B. 1905 B, 570, 585, figs. 1-8, 10.
Huene, F. 1920 F, 457.
1922 H, 148.
1926 E, 4.
Jaekel, O. 1922 A, 11, 12.
Moodie, R. L. 1908 G, 528, figs. 12, 14.
1911 A, 495.
1914 A, 14.
Versluys, J. 1912 B, 569, fig. W.
Triassic (Popo Agie); Wyoming.

BUETTNERIA Case. Type *B. perfecta* Case.

Case, E. C. 1922 B, 13.
 Branson and Mehl 1928 C, 488.
 Case, E. C. 1921 C, 445 (No description).

Buettneria perfecta Case.

Case, E. C. 1922 B, 13, pls. i-iv; text-figs. 1-3.

Branson and Mehl 1928 A, 325.
 Case, E. C. 1921 C, 445 (No description).
 1922 A, 445 (Nom. nud.).
 1924 A, 423, pl. xxiii, fig. 2; pl. xxiv.
 Huene, F. 1926 E, 5.
 Triassic; Texas.

TYPOTHORAX Cope. Type *T. coccinarum* Cope.

Hay, O. P. 1902 A, 511.
 Branson, E. B. 1905 B, 568.
 Huene, F. 1922 H, 150, 152.
 1926 E, 2.
 Lydekker, R. 1912 C, 121.
 Zittel and Broili 1911 A, 260.

Typothorax coccinarum Cope.

Hay, O. P. 1902 A, 511.

Cross, W. 1907 A, 640 ("Typothorax").
 Cross and Howe 1905 A, 494.
 Gregory and Camp 1918 A, 531, text-fig. 11.
 Huene, F. 1915 A, 485, figs. 1-10.
 1922 F, tab.
 1926 E, 5, 7, 9, figs. 1, 2.
 Merrill, G. P. 1907 A, 81.
 Triassic (Dolores); New Mexico.

CALAMOPS Sinclair. Type *C. paludosus* Sinclair.

Sinclair, W. J. 1917 A, 319.

Calamops paludosus Sinclair.

Sinclair, W. J. 1917 A, 319, fig. 1.
 Triassic (Newark); Pennsylvania.

Subclass LISSAMPHIBIA Haeckel.

Haeckel, E. 1866, Gen. Morphology.
 Arltdt, T. 1907 D, 663.
 Gadow, H. 1898 A, 13.

Haeckel, E. 1868 A, 441.
 1873 A, 512.

Order CAUDATI Duméril.

Unless otherwise indicated the authors, as quoted, apply to this order the name Urodela.

Duméril, A. M. C. 1806 A, 94 (Caudati).
 Hay, O. P. 1902 A, 424.
 Abel, O. 1912 F, 219, 706 ("urodelen").
 1919 A, 324.
 1920 A, 346.
 1921 A, 144 ("urodelen").
 Agar, W. E. 1906 A, 54 ("urodeles").
 Ahlborn, F. 1896 B, 7 ("urodelen").
 Allis, E. P. 1915 A, 616.
 1923 A, 48.
 Altmann, F. 1925 A, 88 ("urodelen").
 Anderson, R. J. 1912 D, 251.
 Anthony, R. 1912 A ("urodèles").
 1913 A, 244 ("urodèles").
 Anthony and Vallois 1914 A, 219 ("urodèles").
 Arltdt, T. 1907 D, 687.
 1912 A, 668, 678.
 1916 A, 101 ("urodelen").
 Baird, S. F. 1850 B, 281, 283.
 Baraldi, G. 1877 A, *passim* ("urodèles").
 Bardeleben, K. 1889 A, 107 ("urodelen").
 1889 B, 259.
 1896 A, 114 ("urodelen").
 1903 A, 23 ("urodelen").
 1904 A, 109 ("urodelen").
 Baur, G. 1887 H, 47 ("urodelen").
 Beer, G. R. 1926 A, 307.
 Bender, O. 1907 A, 39 ("urodelen").
 Beyer, H. 1907 A, 267 ("urodelen").
 Blainville, H. M. D. 1817 A, 107 ("reptiles nues").

Boas, J. E. V. 1914 B, 553 ("urodelen").
 1914 C, 256 ("urodelen").
 Bonaparte, C. L. 1832 A, 319.
 Boulenger, G. A. 1902 F, 383 (Caudata).
 Brauer, A. 1914 A, 284.
 Braus, H. 1906 A, 238 ("urodelen").
 Bridge, T. W. 1878 A, 725.
 Broili, F. 1913 D, 351 ("urodelen").
 Carter, J. T. 1905 A, 129, 140.
 Carter, O. 1875 A, 73 ("urodelen").
 Carus, V. 1875 A, 481.
 Case, E. C. 1911 B, 14, 68.
 1915 A, 97.
 Cope, E. D. 1885 BB, 65.
 1885 DD, 307.
 1891 N, 28, 31.
 Coyle, R. F. 1909 A, 582.
 Cunningham and Boulenger 1912 A, 161, 211.
 Dana, J. D. 1863 A, 1 ("tailed batrachians").
 Davidson, A. 1895 A, 407.
 Delsman, H. C. 1924 A, 155.
 Dollo, L. 1884 D, 86 (Urodela).
 1885 C, 303 ("urodèles").
 Dombrowski, B. A. 1925 A, 72 ("urodelen").
 Drüner, L. 1902 A, 435 ("urodelen").
 1904 A, 273 ("urodelen").
 1904 B, 361 ("urodelen").
 1906 A, 7 ("urodelen").
 Dunn, E. R. 1922 A, 418 (Caudata).
 Ebner, V. 1896 A, 146 ("urodelen").
 Edgeworth, F. H. 1920 A, 128.
 1925 A, 225.
 Eisler, P. 1895 A, 56 ("urodelen").

- Elliott, A. I. M. 1907 A, 648 ("urodeles").
 Emery, C. 1890 A, 287 ("urodelen").
 1895 A, 221 ("urodèles").
 1897 D, 602 ("urodelen").
 Fejérváry, G. J. 1920 A, 362 ("urodèles").
 1925 A, 177 ("urodelen").
 Frassetto, F. 1915 A ("urodeli").
 Fuchs, H. 1907 C, 8 ("urodelen").
 1909 B, 123, 148 ("urodelen").
 1909 D, 8, 76 ("urodelen").
 1910 A, 39 ("urodelen").
 1911 A, 34 ("urodelen").
 1911 B, 401 ("urodelen").
 1912 D, 153 ("urodelen").
 Fürbringer, M. 1902 A, 200 ("urodelen").
 Gadow, H. 1901 B, 11, 94.
 1902 B, 355.
 1905 A, 200.
 1914 A, 506 ("urodeles").
 Gaupp, E. 1891 B, 110 ("urodelen").
 1895 A, 57, seq. ("urodelen").
 1899 A, 1034, 1038 ("urodelen").
 1900 A, 571 ("urodelen").
 1901 B, 944 ("urodelen").
 1902 A, 224 ("urodelen").
 1905 A, 286 ("urodelen").
 1905 D, 936 ("urodelen").
 1906 A, 24 ("urodelen").
 1906 B, 688 ("urodelen").
 1911 A, 401 ("urodelen").
 1911 B, 115 ("urodelen").
 1911 C, 437 ("urodelen").
 1913 A, 23 ("urodelen").
 Gebhardt, F. A. M. W. 1907 A, 78 ("urodelen").
 Gegenbaur, C. 1870 A, 336 ("urodelen").
 Gelderen, C. 1922 A, 234.
 1923 A, 15.
 1925 A, 501.
 Gervais, P. 1859 A, 497 ("urodèles").
 Goeppert, E. 1896 B, 3, fig. 2 ("urodelen").
 Goette, A. 1879 A, 143 ("urodelen").
 Goodrich, E. S. 1911 A, 101.
 Gottlieb, H. 1914 A, 195 ("urodelen").
 Gregory, W. K. 1912 D, 220 ("urodeles").
 1915 D, 365.
 1917 B, 316 (Caudata).
 1925 A, 501.
 Gregory and Adams 1915 A, 763 ("urodeles").
 Grote, A. 1926 A, 458 ("uroden").
 Haeckel, E. 1868 A, 449 (Sozara).
 Hasse, C. 1892 C, 1 ("urodelen").
 1893 B, 537 ("urodelen").
 Hatschek, B. 1889 A, 86 ("urodelen").
 1889 B, 116 ("urodelen").
 Heilprin, A. 1887 A, 306.
 Hertwig, O. 1874 B, ("urodelen").
 Higgins, G. M. 1920 A, 293.
 Hiltzheimer, M. 1913 A, 475 ("urodeles").
 Hoeven, J. v. d. 1866 A, 364.
 Hoffmann, C. K. 1878 B, 615.
 Howes, G. B. 1893 B, 272.
 Howes and Swinnerton 1901 A, 17.
 Huene, F. 1909 D, 333.
 1922 G, 454 ("urodelen").
 1926 A, 265.
 Huxley, T. H. 1875 D, 24.
 1879 A, 400 ("urodeles").
 Ihering, H. 1880 A, 299 ("urodelen").
 Iwanzoff, N. 1894 A, 579 ("urodelen").
 Jacobshagen, E. 1920 A, 91 ("urodelen").
 Jaekel, O. 1909 A, 194 ("urodelen").
 1911 A, 129.
 Johnson, A. 1883 A, 406.
 Kapelkin, W. 1900 A ("urodelen").
 Kehrer, F. A. 1896 A, 352 ("urodelen").
 Kerr, J. G. 1900 A, 233.
 1901 A, 694 ("urodeles").
 1902 A, 424 ("urodeles").
 1910 A, 204 ("urodeles").
 Kingsbury, B. F. 1903 A, 313.
 Kingsbury and Reed 1908 A, 81-91, text-figs. 1-7.
 Kingsley, J. S. 1900 A, 205, 209 ("urodeles").
 1901 B, 337.
 1902 B, 323.
 1925 A, 38, 122, 279.
 Klaauw, C. J. 1924 B, 573.
 Klein, E. E. 1868 A (Caudata).
 Köstlin, O. 1844 A ("geschwänzte").
 Koken, E. 1898 B, 143.
 Kravetz, L. 1906 A, 6.
 1911 A, 360 ("urodelen").
 Lakjer, T. 1927 A, 201 ("urodelen").
 Lavocat, A. 1885 A, 34 ("urodèles").
 Lebedinsky, N. G. 1917 A, 316 ("unrodeles").
 Leboucq, H. 1884 A, 85 ("urodèles").
 Leche, W. 1887 A ("urodelen").
 Leunis and Ludwig 1883 A, 623.
 Leydig, F. 1887 A, 538 ("urodelen").
 Lönnberg, E. 1910 A, 4.
 Lubosch, W. E. 1908 A, 196 ("urodelen").
 Meckel, J. F. 1825 A ("geschwänzte").
 Mivart, St. G. 1871 B, 370 ("tailed batrachians").
 Moodie, R. L. 1908 B, 361, 366 (Caudata).
 1909 C, 118.
 1909 D, 243 (Caudata; Euamphibia, in part).
 1909 F, 220 (Caudata; Euamphibia, in part).
 1912 A, 278 (Euamphibia, in part).
 1912 B, 287 (Caudata).
 1912 D, 326 (Caudata; Euamphibia, in part).
 1915 F, 189, 190 (Caudata).
 1915 H, 638.
 1916 A, 45, 49 (Caudata; Euamphibia, in part); 45, 69 (Caudata).
 Murray, J. A. 1897 A, 661.
 Nauck, E. T. 1923 A, 15, figs. 2, 3.
 Noble, G. K. 1921 A, 1 ("salamanders").
 1922 A, 50, 57, table 1 (Caudata).
 1925 C, 1.
 Nopcsa, F. 1923 E, 1049, 1056.
 1926 A, 643.
 Okajima, K. 1908 A, 351 (Onychodactylus).
 Oppel, C. A. 1811, Ordn. Rept., 72 (Caudata).
 Oswald, F. 1911 A, 405 ("urodeles").
 Parker, W. K. 1877 B, 529.
 1879 C, 332, 339 ("urodeles").
 1887 B, 53 ("urodeles").
 Parker and Haswell 1897 A, 272.
 Pehrson, T. 1922 A.
 Perrin, A. 1896 A, 90 ("urodèles").

- Perrin, A. 1899 A, 521 ("urodèles").
 Peter, K. 1898 A ("urodelen").
 Petronievics, B. 1921 A, 107 ("urodèles").
 Pompeckj, J. F. 1912 A, 338, 344 ("urodelen").
 Puccioni, N. 1908 A, 56 ("urodeli").
 Rabl, C. 1901 A, 496 ("urodelen").
 1903 A, 157 ("urodelen").
 Reed, H. D. 1920 A, 325.
 Reynolds, S. H. 1897 A, 134, 169, 174, 182, 184, 187.
 Röse, C. 1894 C, 178-192 ("schwanzmolche").
 Romer, A. S. 1922 B, *passim* ("urodeles").
 Sabatier, A. 1896 A, 125 ("urodèles").
 1897 B, 933 ("urodèles").
 1902 A, 99 ("urodèles").
 Schauinsland, H. 1906 A, 488 ("urodelen").
 Schmalhausen, J. J. 1916 B, 138.
 1917 B, 134.
 Schönes, G. 1902 A, 8 ("urodelen").
 Schuchert, C. 1915 A, 800.
 Schwarz, H. 1908 A, 326 ("urodelen").
 1908 B, 102 ("urodelen").
 Seeley, H. G. 1876 C, 185.
 1888 I, 235 ("urodeles").
 Sewertzoff, A. 1896 A, 207.
 1904 A, 484.
 1908 A.
 1926 D, 75 ("urodelen").
 Seydel, O. 1899 A ("urodelen").
 Shitkov, B. M. 1899 A, 246 ("urodelen").
 Shore, T. W. 1887 A, 366 ("urodeles").
 Sollas, W. J. 1920 A, 484, 524 ("urodeles").
 Sonies, F. 1907 A, 405 ("urodelen").
 Spencer, W. B. 1886 A, 173 ("urodeles").
 Stadtmüller, F. 1925 A, 149-225 ("urodelen").
 1926 A, 158, fig. 5 ("urodelen").
 Steiner, H. 1921 A, 514 ("urodelen").
 1922 A, 328.
 Stejneger, L. 1907 C, 2 (Caudata).
 Stejneger and Barbour 1917 A, 5 (Caudata).
 Stöhr, P. 1880 A, 477.
 Stromer, E. 1912 A, 56.
 Sushkin, P. P. 1910 A, 241.
 1927 A, 275 ("urodelous amphibians").
 Taschenberg, O. 1894 A, 3531.
 Terra, P. 1911 A, 222 (Caudata).
 Thevenin, A. 1910 A, 37 ("urodèles").
 Thyng, F. W. 1906 A, 40.
 Ussow, S. 1900 A, 226.
 Van Gelderen, C. 1925 A, 505 ("urodelen").
 Versluys, J. 1912 B, 566 ("urodelen").
 1912 C, 314.
 1925 B, 182.
 Vialleton, L. 1917 A, 190 ("urodèles").
 Villiers, C. G. S. 1922 A ("urodelen").
 Virchow, H. 1914 C, 132 ("urodelen").
 Vitali, G. 1909 A, 208 ("urodeli").
 Wagner, R. 1843 A, 146.
 Wallace, A. R. 1876 A, ii, 411.
 Watson, D. M. S. 1914 D, 168 ("urodeles").
 1916 C, 632 ("urodeles").
 1917 A, 982 ("urodeles").
 1917 B, 57 ("urodeles").
 1919 B, 58 ("urodeles").
 1926 A, 190, 200.
 Wegner, R. N. 1922 A, 417 ("urodelen").
 Weitzel, A. 1865 A, 318 ("geschwänzte").
 Wilder, I. W. 1920 A, 349 ("urodeles").
 Williston, S. W. 1910 D, 534 (Caudata).
 1912 B, 660.
 1916 B, 211 (Caudata).
 Winslow, G. M. 1898 A, 148.
 Wintrebert, P. 1910 A, 1081 ("urodèles").
 1910 B, 78, 131, 172 (urodèles").
 Woodward, A. S. 1898 B, 139.
 Zittel and Broili 1911 A, 174.
 1923 A, 204.
 Zittel, Eastman, etc. 1902 A, 135.

Suborder PROTEIDA Cope.

- Cope, E. D. 1866 F, 102.
 Arldt, T. 1916 A, 95, 105 ("proteiden").
 Blainville, H. M. D. 1835 A, 281 ("protées").
 Cope, E. D. 1885 DD, 305.
 1889 D, 13, 21.
 1891 N, 31.
 Dollo, L. 1884 D, 86.
 Dunn, E. R. 1922 A, 425, 427.
 Hogg, J. 1841 A, 355 (Proteida).
 Huxley, T. H. 1872 A, 150 (Proteida).
 1875 C, 759, 770 (Perennibranchiata).
 Moodie, R. L. 1916 A, 67.
 Müller, J. 1832, Isis, 504 (Proteidea).
 Stannius, H. 1856 A, 4 seq. (Proteida).
 Stejneger and Barbour 1923 A, 1.
 Tschudi, J. J. 1839 A, 26, 96 (Proteideæ).
 The Proteidea of Müller is a heterogeneous group containing *Proteus*, *Azototl*, *Meno-branchus* (*Necturus*), and *Siren*.

COCYTINIDÆ.

- Cope, E. D. 1875 X, 12.
 Hay, O. P. 1902 A, 415 (Tuditanidæ, part).
 Gregory, W. K. 1917 B, 313 (Cocytinidæ); 316 (Coccytinidæ).
 Moodie, R. L. 1912 D, 326.
 1916 A, 67.

COCYTINUS Cope. Type *C. gyrinoides* Cope.

- Hay, O. P. 1902 A, 416.
 Broili, F. 1908 F, 60.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 315 (Coccytinus).
 Moodie, R. L. 1916 A, 67.
 Schwarz, H. 1908 B, 70, 91.
 Coccytinus *gyrinoides* Cope.
 Hay, O. P. 1902 A, 416.
 Moodie, R. L. 1912 D, 328.
 1914 A, 16.
 1916 A, 68, figs. 16, 16a.
 Pennsylvanian (Linton); Ohio.

ERIERPETON Moodie. Type *E. branchialis* Moodie.

Moodie, R. L. 1912 D, 328.
1916 A, 69.

Erierpeton branchialis Moodie.

Moodie, R. L. 1912 D, 326, 329, pl. i, fig. 3;
pl. ii, fig. 1.

Moodie, R. L. 1912 A, 278.

1914 A, 18.

1916 A, 70, pl. iii, fig. 4; text-fig. 15.

Pennsylvanian (Mazon Creek); Illinois.

HYPHASMA Cope. Type *H. lævis* Cope.

Hay, O. P. 1902 A, 416.

Broili, F. 1908 F, 59.

Case, E. C. 1917 A, 134.

1919 B, 200.

Moodie, R. L. 1908 F, 255.

1916 A, 70.

Hyphasma lævis Cope.

Hay, O. P. 1902 A, 416.

Baird, S. F. 1876 A, eci.

Moodie, R. L. 1914 A, 20.

1916 A, 71.

Pennsylvanian (Linton); Ohio.

Suborder MEANTES Linnæus.

Linnæus, C. 1766, Syst. Nat. ed. xii, pt. 2, sign.

Rrrr 5, Addenda.

Cope, E. D. 1885 BB, 67 (Trachystomata).

1889 D, 13, 223 (Trachystomata).

Dunn, E. R. 1922 A, 427.

Hoffmann, C. K. 1878 B, 674 (Ichthyoidea, in part).

Huxley, T. H. 1875 C, 771 (Trachystomata).

Stannius, H. 1856 A, 4 seq. (Trachystomata).

Stejneger and Barbour 1917 A, 24.

1923 A, 21.

Superfamily SIRENOIDÆ, new name.

SIRENIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 69.

Amalitsky, V. P. 1924 A, 62 (Ichthyoides).

Anton, W. 1911 A, 179 ("sireniden").

Arlt, T. 1907 D, 681.

1916 A, 106 ("sireniden").

Bauer, G. 1885 M.

Bischoff, T. L. W. 1840 A, 3 ("sirènes").

1840 B, 118 ("sirènes").

Blainville, H. M. D. 1835 A, 282 (Sirena).

Bonaparte, C. L. 1832 A, 319.

1833 B, 186.

Boulenger, G. A. 1882 A, 86.

Brauer, A. 1914 A, 284.

Cope, E. D. 1875 X, 12, 24.

1889 D, 223.

1891 N, 31.

Cunningham and Boulenger 1912 A, 164, 169, 170.

Dunn, E. R. 1922 A, 422, 427.

Fejérváry, G. J. 1920 A, 352.

Gadow, H. 1901 B, 136.

Gill, T. 1885 B, 18.

Gray, J. E. 1850 A, 67.

Hoffmann, C. K. 1878 B, 615, 676.

Hogg, J. 1839 A, 274, 375, 376.

1841 A, 362.

Kingsbury, B. F. 1895 A, 131.

Kressmann, M. 1912 A, 399 ("sireniden").

Lobley, J. L. 1908 A, 203.

Noble, G. K. 1922 A, 61.

1924 A, 100.

1925 C, 2.

Owen, R. 1866 A, 15 (Proteidæ).

Palacký, J. 1899 B, 1 ("sirenen").

Pompeckj, J. F. 1912 A, 344.

Reed, H. D. 1920 A, 356.

Schmalhausen, J. J. 1916 B, 144.

Terra, P. 1911 A, 223.

Wallace, A. R. 1876 A, ii, 411.

Wintrebert, P. 1910 B, 173.

SIREN Linnæus. Type *S. lacertina* Linn.

Linnæus, C. 1766, Syst. Nat. Ed. 12 I, ii, sign.

Rrrr, Addenda.

Abel, O. 1912 F, 414.

Arlt, T. 1916 A, 106.

Baird, S. F. 1850 B, 291.

Bardeleben, K. 1903 A, 25.

Boulenger, G. A. 1882 A, 86.

Brandt, F. 1865 A, 15.

Carlsson, A. 1886 A, 8.

Carus, V. 1875 A, 484.

Cope, E. D. 1875 D, 361.

1885 CC, 1226.

1885 G, 245 ("sirens").

1899 D, 225.

1900 A, 1214, 1219.

Cuvier, G. 1805 A.

Cuvier, G. 1834 A (1836), x, 332.

Drüner, L. 1904 B, 389.

Dunn, E. R. 1922 A, 420.

1924 A, 145.

Edgeworth, F. H. 1925 A, 231.

Gadow, H. 1901 B, 136.

Gaupp, E. 1913 A, 83.

Giebel, C. G. 1855 A, 99, pl. xlii, fig. 10.

Gill, T. 1886 C, 796.

Goeppert, E. 1896 B, 13, pl. i; text-figs. 13, 14.

Gray, J. E. 1850 A, 68.

Hasse, C. 1873 B, 614, 616.

Hasse and Schwarck 1870 A, 49.

Heilprin, A. 1887 A, 306, 311.

Hertwig, O. 1874 B.

Hoeven, J. v. d. 1866 A, 365.

- Hoffmann, C. K. 1874 A, 8, 23, 24.
1878 B, 676, pls. vi, vii.
Hogg, J. 1839 A, 370.
Huxley, T. H. 1863 F, 428.
1872 A, 156, seq.
1874 B, 2, 9.
1875 C, 751-770.
Kingsbury, B. F. 1895 A, 131, pl. iii, figs. 30, 31.
Kingsbury and Reed 1909 A, 598.
Kingsley, J. S. 1925 A, 53, 262, fig. 57.
1902 B, 327, 329.
Klaauw, C. J. 1924 B, 576.
Köstlin, O. 1844 A.
Kressmann, M. 1912 A, 399.
Leunis and Ludwig 1883 A, 630.
Meckel, J. F. 1825 A.
Mivart, St. G. 1870 A, 262.
Noble, G. K. 1925 C, 3.
Norris, H. W. 1913 A, 516.
1913 B, 245.
Owen, R. 1845 B, 188.
1848 B, 125.
1866 A, 47, 179, 391.
1868 A, 908.
Parker, W. K. 1877 B, 572.
1882 C, 186.
Peter, K. 1898 A, 584.
Rabl, C. 1901 A, 511, pl. xxiii.
Reed, H. D. 1920 A, 356, pl. v.
Reynolds, S. H. 1897 A, 135, 168, 169, 174, 180, 187.
Schmalhausen, J. 1917 A, 106.
Sollas, W. J. 1918 A, 239.
Stannius, H. 1856 A, 4, seq.
Sutton, J. B. 1884 A, 567.
Tsehudi, J. J. 1839 A, 69.
Vaillant, L. 1863 A, 294.
Versluys, J. 1912 C, 314.
Wagner, R. 1843 A.
Wallae, A. R. 1876 A, ii, 411.
Wiedersheim, R. 1877 B, *passim*.
Wilder, H. H. 1891 A, 653.
Siren lacertina Linnæus.
Linnæus, C. 1766, Syst. Nat. Ed. 12, I, ii, sign.
Rrrr, Addenda.
Allis, E. P. 1898 A, 453.
Anthony and Vallois 1914 A, 224, figs. 2, 18.
Anton, W. 1911 A, 191, pls. iv, v.
Baird, S. F. 1850 B, 291.
Bischoff, T. L. W. 1840 A, 3 ("sirène").
1840 B, 119 ("sirène").
Boulenger, G. A. 1882 A, 87.
Cope, E. D. 1875 D, 361, fig. 6.
1885 CC, 1227.
1885 DD, 366, fig. 175.
1889 D, 226, pls. xliii, xlv; text-fig. 57.
1900 A, 1214, 1219.
Cunningham and Boulenger 1912 A, 164, pl. xiv.
Cuvier, G. 1825 A, v, 2, 417, pl. xxvii.
1827 A, 1 ("sirène lacertine").
1834 A (1836), x, 332.
Drüner, L. 1904 B, 648, figs. S, T.
Eimer, G. H. T. 1901 A, 21, 28.
Gadow, H. 1901 B, 136, fig. 27.
Gaupp, E. 1905 D, 955.
Gray, J. E. 1825 A, 216.
1850 A, 68.
Hay, O. P. 1917 E, 43.
1923 A, 382.
Hertwig, O. 1874 B, 14, pl. i, fig. 6.
Kingsbury and Reed 1909 A, 598, pl. ix.
Kressmann, M. 1912 A, 399, pl. xvii; text-figs. 1-16.
Luboseh, W. 1911 B, 741.
Mivart, St. G. 1870 A, 262, figs. 2, 3, 8, 9, 11, 14, 18.
Nopesa, F. 1923 G, 147.
Norris, H. W. 1913 A, 516.
1913 B, 245, figs. 1-44.
Owen, R. 1845 B, 188, pl. lxii, figs. 5, 6.
1848 B, 125.
1866 A, 47.
Palacký, J. 1899 B, 6.
Parker, W. K. 1882 C, 187, 190, pl. xxxviii, figs. 5, 6; pl. xxxix, figs. 1-3.
Röse, C. 1894 C, 180, figs. 6-8.
Stejneger and Barbour 1917 A, 24.
Vaillant, L. 1863 A, 294, pls. vii-ix.
Wiedersheim, R. 1877 B, *passim*, pl. i, figs. 10-13; pl. ii, figs. 18-20.
Wilder, H. H. 1891 A, 653, pls. xxxix, xl.
Recent; southern States to Indiana and Peoria, Illinois: Pleistocene; Florida.

Suborder MUTABILIA Merrem.

- Merrem*, B. 1820, Syst. Amphib., 166.
Bonaparte, C. L. 1831 A, 77 (Urodela).
Cope, E. D. 1866 F, 102 (Cadueibranchiata).
1889 D, 303 (Pseudosauria, Trematodera, Amphiumoidea).
1889 R, 861 (Pseudosauria).
Drüner, L. 1904 B, 362 ("cadueibranchiaten").
Dunn, E. R. 1922 A, 426 (Mutabilia, Salamandroidea).
Hoffmann, C. K. 1878 B, 674 (Ichthyoidea, in part).
Huxley, T. H. 1872 A, 150, 154 (Salamandridæ).
1876 F, 169 (Cadueibranchiata).
Parker and Haswell 1897 A, 272 (Derotremata).
Stejneger, L. 1907 C, 3.
Stejneger and Barbour 1917 A, 6.
1923 A, 2.

Superfamily AMPHIUMOIDÆ, new form.

- Cope, E. D. 1889 D, 33 (Amphiumoidea, Trematodera).
Stejneger, L. 1907 C, 3 (Amphiumoidea).
Zittel and Broili 1911 A, 176 (Ichthyoidea).
1923 A, 205 (Ichthyoidea).

LYSOROPHIDÆ Williston.

- Williston, S. W. 1908 D, 237, 240.
Abel, O. 1919 A, 326 (Paterosauridæ).
Amalitsky, V. P. 1924 A, 62.
Arlt, T. 1912 A, 656 (Paterosauridæ).
1916 A, 102, 143 ("lysorophiden").
Broili, F. 1904 A, 99 (Paterosauridæ).

Broili, F. 1904 D, 587 (Paterosauridæ).
1908 E, 295 (Paterosauridæ).

Case, E. C. 1911 B, 14, 68, 84, 141.
1915 A, 97.

Huene, F. 1913 B, 374.
1913 G, 505.
1926 A, 262.

Moodie, R. L. 1909 C, 116.

Pompeckj, J. F. 1912 A, 339, 344 (Lysorophidæ,
Paterosauridæ).

Sollas, W. J. 1918 A, 239, figs. 4, 5.
1920 A, 482.

Stromer, E. 1912 A, 56 (Paterosauridæ).

Williston, S. W. 1908 F, 317 (Paterosauridæ).
1910 D, 534.
1916 B, 211.

Zittel and Broili 1911 A, 217 (Paterosauridæ).
1923 A, 265, 379, 383 (Paterosauridæ).

LYSOROPHUS Cope. Type *L. tricarinatus* Cope.

Hay, O. P. 1902 A, 433.

Abel, O. 1920 A, 354.

Amalitsky, V. P. 1921 A, 9.
1924 A, 57.

Arlt, T. 1912 A, 656.
1916 A, 102.

Broili, F. 1904 A, 80, 94, 98, text-fig. 5.
1904 D, 586.
1908 B, 269.
1908 E, 290.
1913 A, 98.
1913 B, 520.
1913 D, 350.

Broom, R. 1910 A, 214.
1918 A, 232.

Case, E. C. 1902 C, 257.
1908 A, 531.
1911 B, 14, 68, 84, 141.
1912 A, 203.
1915 A, 131, 132.

Drevermann, F. 1920 A, 101.

Finney, M. 1912 A, 664.

Gilmore, C. W. 1927 G, 11.

Gregory, W. K. 1917 B, 315.

Huene, F. 1913 B, 322, 372, 377.
1913 C, 389.

Jaekel, O. 1909 A, 210.

Kingsley, J. S. 1925 A, 128, fig. 135.

Matthew, W. D. 1923 B, 109.

Mehl, M. G. 1912 C, 408.

Moodie, R. L. 1909 C, 117.

1911 C, 382.

1912 D, 328.

1915 G, 370, 373.

Pompeckj, J. F. 1912 A, 339, 342, 346.

Sollas, W. J. 1918 A, 239, figs. 4, 5.
1920 A.

Steinmann, G. 1908 A, 210.

Stromer, E. 1912 A, 56.

Watson, D. M. S. 1917 C, 170.

Williston, S. W. 1908 D, 230.
1908 F, 317.

Williston, S. W. 1909 A, 394.

1909 E, 194.

1912 B, 660.

1912 F, 92.

1913 A, 825.

1914 C, 59.

1915 A, 578.

1916 B, 211, fig. 54.

Zittel and Broili 1911 A, 218.

1923 A, 266.

Lysorophus tricarinatus Cope.

Hay, O. P. 1902 A, 433.

Abel, O. 1919 A, 326, figs. 249-251.
1920 A, 354, figs. 561, 562.

Broili, F. 1904 A, 94, pl. xii, figs. 1-10.
1904 D, 586, figs. 12-14.
1908 E, 291, figs. 1, 2.
1913 A, 100.
1913 B, 520.

Broom, R. 1918 A, 232, figs. 1-3.

Case, E. C. 1900 A, 714, pl. ii, fig. 12.

1902 A, 45, pl. ix, figs. 1, 2.

1902 C, 256, pl. i, fig. 1.

1908 A, 531, fig. 1.

1911 B, 68, 141, text-figs. 47, 48.

1915 A, 97, 125, text-fig. 13.

Cope and Matthew 1915 A, pl. iii, figs. 19, 20.

Huene, F. 1913 B, 322, figs. 7-10.

1913 C, 393, figs. 1-5.

Jaekel, O. 1909 A, 208, figs. 14, 15.

1911 A, 127, fig. 142.

Moodie, R. L. 1909 C, 117.

1914 A, 21.

Pompeckj, J. F. 1912 A, 338, fig. 1.

Sternberg, C. H. 1909 C, 258.

Williston, S. W. 1908 D, 229, 230, text-figs. 1-3.
1908 F, 316.

Zittel and Broili 1911 A, 218, fig. 357.

1923 A, 265, fig. 373.

Permian (Wichita); Texas: Pennsylvanian
(Upper); Illinois.

AMPHIUMIDÆ Gray.

Gray, J. E. 1825 A, 216.

Abel, O. 1919 A, 330.

Arlt, T. 1907 D, 637.

1916 A, 104 ("amphiumiden").

Bonaparte, C. L. 1833 B, 1186.

Boulenger, G. A. 1882 A, 80.

Cope, E. D. 1866 F, 104 (Amphiumidæ); 105
(Protonopsidæ).

1869 B, 152.

1875 X, 12.

1885 DD, 308.

1886 X, 442.

Cope, E. D. 1889 D, 213.

Cunningham and Boulenger 1912 A, 163, 169, 170.

Dunn, E. R. 1922 A, 422, 426.

Gadow, H. 1901 B, 97.

Gill, T. 1885 B, 18.

Gray, J. E. 1850 A, 54.

Hoffmann, C. K. 1878 B, 615, 675.

Huxley, T. H. 1875 C, 770 (Amphiumida).

Kingsbury, B. F. 1895 A, 130.

Kingsley, J. S. 1892 A, 674.

1892 B, 329.

Lobley, J. L. 1908 A, 203.

Lydekker, R. 1890 A, 137.
 Noble, G. K. 1922 A, 62 ("amphiumids").
 Owen, R. 1868 A, 860 (Amphiuma).
 Palacký, J. 1899 B, 1 ("amfiumen").
 Reed, H. D. 1920 A, 350, 371.

Ryder, J. A. 1879 C, 14.
 Schmalhausen, J. J. 1916 B, 144.
 Terra, P. 1911 A, 223.
 Wallace, A. R. 1876 A, ii, 412.

AMPHIUMA Garden. Type *A. means* Garden.

- Garden*, A. 1821, in Smith's Correspondence of Linnæus, I, 599.
 Abel, O. 1912 F, 414.
 Adams, L. A. 1919 A, 86, pl. v.
 Arltdt, T. 1916 A, 104.
 Baird, S. F. 1850 B, 290.
 Bardeleben, K. 1901 A, 31.
 1903 A, 25.
 Baur, G. 1885 M.
 1897 D, 42.
 Boulenger, G. A. 1882 A, 82.
 Carus, V. 1875 A, 483.
 Cope, E. D. 1866 F, 104.
 1869 B, 152.
 1875 D, 361.
 1885 G, 245 ("amphiuma").
 1885 DD, 309.
 1886 X, 442.
 1889 D, 215.
 Cuvier, G. 1827 A, 1.
 Davidson, A. 1895 A, 375.
 1897 A, 6, figs. 1-7.
 Drüner, L. 1904 B, 374.
 Dunn, E. R. 1922 A, 420, 422.
 1924 A, 145.
 Edgeworth, F. H. 1920 A, 128.
 1925 A, 231.
 Eimer, G. H. T. 1901 A, 256.
 Field, H. H. 1895 A, 340, pl. xiii, figs. 16, 18-21.
 Gadow, H. 1896 A, 10.
 1901 B, 100.
 Gaupp, E. 1899 A, 1041.
 1905 D, 959.
 1906 B.
 Giebel, C. G. 1855 A, 98, pl. xlii, fig. 4.
 Gray, J. E. 1825 A, 217.
 1850 A, 55 (Amphiuma, Murænopsis).
 Gregory and Adams 1915 A, 763.
 Hay, O. P. 1888 A, 315.
 1889 A, 286.
 1890 A, 11.
 Heilprin, A. 1887 A, 306, 311.
 Hertwig, O. 1874 B, 17.
 Higgins, G. M. 1920 A, 296.
 Hoeven, J. v. d. 1866 A, 367, 375.
 Hoffmann, C. K. 1874 A, 8, 18, 24, 30.
 1878 B, 675, pls. vi, vii, xv.
 Hogg, J. 1839 A, 370.
 Howes, G. B. 1893 B, 278.
 Huxley, T. C. 1872 A, 157 seq.
 1874 B, 9, 12.
 1875 C, 758.
 Kingsbury, B. F. 1903 A, 331.
 Kingsbury and Reed 1908 A, 82.
 1909 A, 596.
 Kingsley, J. S. 1892 A, 671.
 1897 A, 436.
 1900 A, 211.
 1901 B, 337. 1902 A.
 Kingsley, J. S. 1902 B, 323.
 1912 B, 82, fig. 82.
 1925 A, 124, fig. 131.
 Kingsley and Ruddick 1889 A, 219.
 Klaauw, C. J. 1924 B, 577.
 Köstlin, O. 1844 A.
 Kravetz, L. 1911 A, 360.
 Kressman, M. 1912 A, 426.
 Leunis and Ludwig 1883 A, 629.
 Meyer, H. 1860 E, 50.
 Mivart, St. G. 1870 A, 262.
 Nopcea, F. 1923 G, 124, 147.
 Norris, H. W. 1903 A, 69.
 1908 A, 527.
 1913 A, 517.
 Owen, R. 1845 B, 190.
 1848 B, 102, 125, 199, pl. ii.
 1866 A, 5, 163, 170, 182, fig. 101.
 1868 A, 860.
 Parker, W. K. 1882 D, 209.
 Parker and Haswell 1897 A, 274, fig. 888.
 Peter, K. 1898 A, 569, 597.
 Rabl, C. 1901 A, 509, pl. xxiii.
 Reed, H. D. 1920 A, 351, pl. iii, text-figs. 15, 16.
 Reynolds, S. H. 1897 A, 135, 174, 187, 188.
 Ryder, J. A. 1879 C, 14 (Amphiuma, Murænopsis).
 1887 A, 365.
 Schauinsland, H. 1906 A, 498.
 1916 A, 110.
 Sollas, W. J. 1920 A, 499.
 Stannius, H. 1856 A, 4, seq.
 Thyng, F. W. 1906 A, 47, fig. D.
 Van Pee, P. 1903 A, 37, figs. 1-5.
 1904 A, 476.
 Versluys, J. 1912 C, 314.
 Wagner, R. 1843 A.
 Watson, D. M. S. 1916 C, 632.
 Wiedersheim, R. 1877 A.
 1877 B, *passim*.
 1902 A, 47, pl. vi, fig. 4.
 Winslow, G. M. 1898 A, 149, 180.
- Amphiuma means** Garden.
- Garden*, A. 1821, in Smith's Correspondence of Linnæus, I, 599 (descrip. 333).
 Anton, W. 1911 A, 184.
 Baird, S. F. 1850 B, 290 (A. means, A. tridactylum).
 Boulenger, G. A. 1882 A, 82 (A. tridactyla); 83 (A. means).
 Cope, E. D. 1875 D, 353, fig. 1.
 1885 DD, 308.
 1886 X, 442, pl. vi.
 1889 D, 216, pl. ix, fig. 7; pl. x; pl. xi, figs. 2-9; pl. xii; pl. xiii, fig. 5; text-figs. 55, 56.
 Cunningham and Boulenger 1912 A, 163, pl. xiv.
 Cuvier, G. 1825 A, v, 2, 419, pl. xxvii.

- Cuvier, G. 1827 A, 4, pl. i, figs. 1-3, pl. ii, figs. 1-8, 15-18 (A. means); 7, pl. i, figs. 4-6; pl. ii, figs. 9-14 (A. tridaetulum).
- Davidson, A. 1895 A, 375, pls. xxiii, xxiv.
- Drüner, L. 1904 B, 626, pl. xxiii (A. tridaetulum).
- Edgeworth, F. H. 1925 A, 229 (A. tridaetulum).
- Gadow, H. 1901 B, 100, fig. 18.
- Gray, J. E. 1825 A, 217.
- 1850 A, 55 (A. means, *Muraenopsis tridaetula*).
- Hay, O. P. 1888 A, 315.
- 1889 A, 286.
- 1890 A, 11, pl. ii.
- 1917 E, 43.
- 1923 A, 382.
- Holbrook, J. E. 1842, N. Amer. Reptiles, v, 89, pl. xxx.
- Kingsbury, B. F. 1903 A, 325.
- Kingsbury and Reed 1909 A, 596, text-figs. 18-21.
- Kingsley, J. S. 1892 A, 671.
- Mivart, St. G. 1870 A, 262, figs. 1, 4, 5, 7, 16, 17, 19.
- Morgan, T. H. 1903 A, 293.
- Norris, H. W. 1908 A, 527, pls. iv-viii.
- Owen, R. 1845 B, 191, pl. lxii, fig. 7 (A. means, A. tridaetulum).
- 1866 A, 182 (A. tridaetulum).
- Palacký, J. 1899 B, 6 (*Anfuma*).
- Röse, C. 1894 C, 180, figs. 3, 11.
- Shufeldt, R. W. 1883 D, 159, figs. 1-4 (*Muraenopsis tridaetulus*).
- Wiedersheim, R. 1877 A, pls.
- 1877 B, *passim*, pl. i, figs. 7-9; pl. ii, fig. 17; pl. iv (A. tridaetulum).
- Wilder, H. H. 1891 A, 654 (A. tridaetula).
- Winslow, G. M. 1898 A, 164.
- Recent; Virginia to Florida and Louisiana: Pleistocene; Florida.

CRYPTOBRANCHIDÆ Cope.

- Cope, E. D. 1889 D, 33, 34, 36.
- Amalitsky, V. P. 1924 A, 62 (*Iehthyoides*).
- Bauer, G. 1885 M (*Menopomidæ*).
- Beyer, H. 1907 A, 268 ("menopomiden").
- Carus, V. 1875 A, 483 (*Cryptobranhia*).
- Dunn, E. R. 1922 A, 423, 424, 427.
- Hoffmann, C. K. 1878 B, 674 (*Menopomidæ*).
- Hogg, J. 1839 A, 274, 374, 375 (*Menopomatidæ*).
- 1841 A, 355 (*Derotremata*).
- Kingsbury, B. F. 1895 A, 123.
- Kingsbury and Reed 1909 A, 591.
- Lobley, J. L. 1908 A, 203 (*Menopomidæ*).
- Müller, J. 1832 A, 504 (*Derotremata*).
- Noble, G. K. 1922 A, 49, 61.
- 1925 C, 1.
- Reed, H. D. 1920 A, 327, 366.
- Stejneger, L. 1907 C, 3.
- Stejneger and Barbour 1917 A, 7.
- Terra, P. 1911 A, 223 (*Menopomidæ*).
- Wallaec, A. R. 1876 A, ii, 412 (*Menopomidæ*).
- Zittel, K. A. 1890 A, 418 (*Cryptobranhia*).

CRYPTOBRANCHIUS Leuckart. Type *C. alleganiensis* Daudin.

- Leuckart, C. G. F. R. 1821, Isis, Lit. Anz., 259.
- Adams, L. A. 1919 A, 85, pl. v.
- Altmann, F. 1925 A, 87.
- Anton, W. 1911 A, 184.
- Arlt, T. 1916 A, 104.
- Beer, G. R. 1926 A, 308.
- Beyer, H. 1907 A, 268 (*Menopoma*).
- Boulenger, G. A. 1882 A, 81.
- Bronn, H. G. 1838 A, 1166.
- Cope, E. D. 1866 F, 105 (*Protonopsis*).
- 1875 D, 363 (*Protonopsis*).
- 1889 D, 37.
- Drüner, L. 1904 B, 374 (*Cryptobranhus, Menopoma*).
- Dunn, E. R. 1922 A, 419.
- Edgeworth, F. H. 1920 A, 128, figs. 32-56 (*Menopoma*).
- 1923 B, 97, figs. 1-10 (*Cryptobranhus, Menopoma*).
- 1923 C, 238, figs. 1-7 (*Cryptobranhus, Menopoma*).
- 1925 A, 229, figs. 53-63 (*Cryptobranhus, Menopoma*).
- Emery, C. 1901 A, 673, fig. 12.
- Field, H. H. 1895 A.
- Fleissig, J. 1909 A, 48, figs. 1-5.
- Forbes, W. A. 1879 A, 364 ("menopoma").
- Frasetto, F. 1915 A, 16, 149, fig. 89.
- Gadow, H. 1896 A, 10, fig. 14 (*Menopoma, Cryptobranhus*).
- 1901 B, 97.
- Gaupp, E. 1898 B, 866.
- 1899 A, 1041 (*Menopoma*).
- 1905 D, 931, 955, figs. 20, 21 (*Cryptobranhus, Menopoma*).
- 1913 A, 85.
- Giebel, C. G. 1855 A, 98 (*Menopoma*).
- Gray, J. E. 1825 A, 217 (*Abranehus*).
- 1850 A, 53 (*Protonopsis*).
- Gregory, W. K. 1920 A, 224.
- Harlan, R. 1825, Ann. Lye. Nat. Hist. N. Y., i, 270 (*Menopoma*).
- Hase, A. 1913 A, 149, fig. 71 (*Menopoma*).
- Hatcher, J. B. 1903 A, 20 (*Menopoma*).
- Heilprin, A. 1887 A, 306, 311 (*Menopoma*).
- Hertwig, O. 1874 B, 17 (*Menopoma*).
- Higgins, G. M. 1920 A, 294.
- Hoeven, J. v. d. 1866 A, 367, 371 (*Menopoma, Cryptobranhus*).
- Hoffmann, C. K. 1874 A, 17, 22, 24, 29 (*Cryptobranhus, Menopoma*).
- 1878 B, 674, pls. i, ii, vi-xiv (*Menopoma, Cryptobranhus*).
- Hogg, J. 1839 A, 370 (*Menopoma*).
- Holbrook, J. E. 1842 (1844), N. Amer. Rept., v, 95 (*Menopoma*).
- Howes, G. B. 1893 B, 271.
- Huxley, T. H. 1874 B, 9, 12 (*Menopoma*).
- 1875 A, 40 (*Menopoma*).
- 1875 C, 752-770, figs. 1-3 (*Cryptobranhus, Menopoma*).
- 1877 A, 58 (*Menopoma*).

- Iwanzoff, N. 1894 A, 582 (Menopoma).
 Kesteven, H. 1916 A, 305.
 1919 A, 224, fig. 2.
 Kingsbury, B. F. 1895 A, 123.
 1903 A, 326.
 Kingsbury and Reed 1909 A, 591.
 Kingsley, J. S. 1900 A, 211.
 1925 A, 263, figs. 44, 132, 281, 302.
 Klaauw, C. J. 1924 B, 574 (Menopoma).
 Köstlin, O. 1844 A (Menopoma).
 Kressman, M. 1912 A, 426.
 Lakjer, T. 1927 A, 332 (Cryptobranchus, Menopoma).
 Leunis and Ludwig 1883 A, 629 (Menopoma, Cryptobranchus).
 Lobley, J. L. 1908 A, 214 (Menopoma).
 Lubosch, W. 1911 B, 741 (Menopoma).
 Lubsen, J. 1905 A, 432, figs. 1-3.
 Malbranc, M. 1875 A (Menopoma, Cryptobranchus).
 Meyer, H. 1860 E, 50 (Menopoma).
 Mivart, St. G. 1870 A, 264 (Cryptobranchus, Menopoma).
 Mivart and Clark 1879 A, 524, text-fig. 5.
 Moodie, R. L. 1907 A, 90 (Menopoma).
 1915 F, 189.
 Noble, G. K. 1922 A, 47.
 1925 C, 1.
 Osawa, G. 1901 A, 225-427, pls. xi-liv.
 Owen, R. 1845 B, 191 (Menopoma, Sieboldtia).
 1848 B, 50, 159, fig. 28 (Menopoma).
 1866 A, 48, 170, 390, figs. 43, 265.
 Parker, W. K. 1877 B, 571 (Menopoma).
 1879 C, 335 (Menopoma).
 1882 C, 172, pls. xxxvi, xxxvii (Sieboldia); 178 (Menopoma).
 1882 D, 208, 209 (Cryptobranchus, Menopoma).
 Parker and Bettany 1877 A, 131 (Menopoma).
 Parker and Haswell 1897 A, 274.
 Peter, K. 1898 A, 577, 584 (Menopoma).
 Petronievies, B. 1921 A, 107 ("cryptobranches").
 Rabl, C. 1901 A, 498, pl. xxiii (Cryptobranchus, Menopoma).
 Reynolds, S. H. 1897 A, 135, 175.
 Romer, A. S. 1922 B, 562, 569.
 Schmalhausen, J. 1910 A, 439.
 1917 B, 134 (Cryptobranchus, Menopoma).
 Schöne, G. 1902 A, 8.
 Seeley, H. G. 1876 A, 175, 185 (Menopoma).
 Sewertzoff, A. N. 1908 A.
 Shimada, K. 1911 A, 1-9, pls. i-iv.
 Sollas, W. J. 1916 A, 110.
 1920 A, 518, 524.
 Stannius, H. 1856 A, 4, seq. (Menopoma).
 Steiner, H. 1921 A, 519.
 1922 A, 340.
 Stejneger, L. 1901 A, 308.
 Stejneger and Barbour 1917 A, 7.
 Taschenberg, O. 1894 A, 3536.
 Versluys, J. 1912 C, 323.
 Villiers, C. G. S. 1922 A, 166 (Menopoma).
 Wagner, R. 1843 A (Menopoma).
 Watson, D. M. S. 1916 C, 632.
 1917 B, 57.
 Wiedersheim, R. 1877 B, *passim*.
 1877 C, 152 (Menopoma, Cryptobranchus).
 Wiedersheim, R. 1880 D, 582 (Menopoma, Cryptobranchus).
 1892 A, 48, pl. vi, fig. 5 (Menopoma).
 Wiman, C. 1923 B, 275, fig. 3.
 Woodward, A. S. 1904 D, 142.
 Zittel and Broili 1911 A, 176.
 1923 A, 205, fig. 311.
 Zwick, W. 1897 A, 65, fig. 2 (Menopoma).
- Cryptobranchus alleganiensis (Daudin).**
Daudin, F. M. 1802, Hist. Nat. Rept., viii, 231 (Salamandra).
Anton, W. 1911 A, 195 (Menopoma alleghaniense).
Beyer, H. 1907 A, 269 (Menopoma).
Boulenger, G. A. 1882 A, 81 (C. alleghaniensis).
Cope, E. D. 1869 E, 178 ("Menopoma." This species?).
 1875 D, 363, fig. 8 (Protonopsis horrida).
 1875 X, 25 (Menopoma allegheniensis).
 1885 DD, 308, fig. 177 (Protonopsis horrida).
 1889 D, 38, pls. v-viii, text-fig. 5 (C. allegheniensis).
Cunningham and Boulenger 1912 A, 163 (C. alleghaniensis).
Cuvier, G. 1825 A, v, 2, 409, pl. xxvi (Salamander gigantea).
Drüner, L. 1904 B, 443, pl. xiv, fig. 1; pls. xxi, xxii; text-fig. F (Menopoma alleghaniense).
Gadow, H. 1901 B, 97, fig. 17 (C. alleghaniensis).
Gaupp, E. 1899 A, 1041, fig. 4 (Menopoma alleghaniense).
Gray, J. E. 1825 A, 217 (Abranchus alleganiensis).
 1850 A, 57 (Protonopsis horrida).
Hatcher, J. B. 1903 A, 21, fig. 5 (Menopoma allegheniensis).
Hoeven, J. v. d. 1866 A, 371 (C. alleghaniensis).
Holbrook, J. E. 1842 (1844), N. Amer. Rept., v, 95, pl. xxxii (Menopoma alleghaniensis).
Kingsbury, B. F. 1895 A, 123, pl. v, figs. 39, 40.
Kingsbury and Reed 1909 A, 591, pls. vii, viii (C. allegheniensis).
Low, J. W. 1926 A, 913, figs. 1-4 (Menopoma).
Mivart, St. G. 1870 A, 264 ("Menopoma").
Owen, R. 1845 B, 191, pl. lxii, fig. 1 (Menopoma alleghaniense).
Palacký, J. 1899 B, 6 (C. aleganiensis).
Parker, W. K. 1882 C, 178 pl. xxxviii, figs. 1-3; pl. xxxix, figs. 4-6 (Menopoma alleghaniensis).
Pompeckj, J. F. 1912 A, 341.
Reese, A. M. 1906 A, 287, figs. 1-14 (C. allegheniensis).
Wiedersheim, R. 1877 B, *passim*, pl. ii, figs. 23-25 (Cryptobranchus, Menopoma alleghaniense).
 1877 C, 153, figs. 3-5 ("menopoma").
Wilder, H. H. 1891 A, 654 (Menopoma alleg.).
 Recent; eastern United States: Pleistocene (Cave deposits); West Virginia.
- Cryptobranchus sp. indet.**
Hay, O. P. 1923 A, 322, 353. Pleistocene; Pennsylvania, Virginia.
Peterson, O. A. 1926 A, 251, text-fig. 1. Pleistocene; Pennsylvania.

PLICAGNATHUS Cook. Type *P. matthewi* Cook.

Cook, H. J. 1917 A, 213.
 Matthew, W. D. 1918 A, 188, 226.
 Zittel and Broili 1923 A, 206.

Plicagnathus matthewi Cook.

Cook, H. J. 1917 A, 213.
 Matthew, W. D. 1918 A, 188, 226.
 1924 C, 68.
 Upper Mioocene (Lower Snake Creek); Nebraska.

SALAMANDROIDÆ, new form.

Cope, E. D. 1889 D, 33 (Pseudosaura). | Stejneger, L. 1907 A, 11 (Salamandroideæ).

AMBYSTOMIDÆ Stejneger.

Stejneger, L. 1907 A, 25.
Arlt, T. 1907 D, 637 (Amblystomidæ).
 1916 A, 112 ("amblystomatinen").
Boulenger, G. A. 1882 A, 31 (Amblystomatinae).
Cope, E. D. 1859 A, 122 (Amblystomatinae).
 1866 F, 105 (Amblystomidæ).
 1868 N, 166 (Amblystomatinae).
 1885 DD, 311 (Amblystomidæ).
 1889 A, 33, 45 (Amblystomidæ).
Cunningham and Boulenger 1912 A, 163, 168 (Amblystomatinae).
Dunn, E. R. 1922 A, 423, 426.
Fejérváry, G. J. 1920 A, 352 (Amblystomidæ).
Gadow, H. 1901 B, 109 (Amblystomatinae).
 1905 A, 200 (Amblystomatinae).
Gill, T. 1885 B, 18 (Amblystomidæ).
Hallowell, E. 1858, Jour. Acad. Nat. Sci., Phila. (2), iii (Amblystomidæ).
Kingsbury, B. F. 1895 A, 124 (Amblystomidæ).
Kingsbury and Reed 1909 A, 554 (Amblystomidæ).
Klaauw, C. J. 1924 B, 576 (Amblystomidæ).
Noble, G. K. 1922 A, 62 ("amblystomids").
 1926 A, 1 (Amblystomidæ).
Palacký, J. 1899 B, i, 1 ("amblystomatiden").
Pompeckj, J. F. 1912 A, 340 ("amblystomatinen").
Reed, H. D. 1920 A, 326, 367 (Amblystomidæ).
Steiner, H. 1921 A, 520 (Amblystomatinae).
Stejneger, L. 1907 C, 24.

AMBYSTOMA Tschudi. Type *Lacerta maculata* Shaw.

Tschudi, J. J. 1838, mém. Soc. Nat. Neuchâtel, 92.
Adams, L. A. 1919 A, pl. v (Amblystoma).
Albrecht, P. 1833 C, 196, figs. 2, 3 ("siredon").
Allis, E. P. 1909 A, 53 (Amblystoma).
 1915 A, 616 (Amblystoma).
Altmann, F. 1925 A, 89 (Amblystoma).
Arlt, T. 1916 A, 113 (Amblystoma).
Baird, S. F. 1850 B, 281 (Amblystoma).
Beyer, H. 1907 A, 268 (Siredon).
Boulenger, G. A. 1882 A, 38 (Amblystoma).
Carlin, W. E. 1881 A, 120 (Siredon, Amblystoma).
Cope, E. D. 1859 A, 123 (Amblystoma).
 1868 N, 167 (Amblystoma).
 1875 D, 363 (Amblystoma).
 1885 DD, 311 (Amblystoma).
 1889 D, 47 (Amblystoma).
Cunningham and Boulenger 1912 A, 180, 213 (Amblystoma).
Cuvier, G. 1825 A, v, 2, 415, pl. xxvii ("axolotl").
Drüner, L. 1904 B, 509, pl. xiv, fig. 2; pls. xv, xvi, xx; text-figs. A, G (Amblystoma).
Dunn, E. R. 1922 A, 420.
 1923 A, 133 ("amblystomid").
Edgeworth, F. H. 1920 A, 123 (Siredon).
 1925 A, 227, 231, fig. 41 (Amblystoma, Siredon).
Fejérváry, G. J. 1921 C, 3 (Amblystoma).
Field, H. H. 1895 A, 341 (Amblystoma).
Gadow, H. 1896 A, 10 (Siredon).
 1901 B, 109 (Amblystoma).
 1905 A, 200 (Amblystoma).
Gaupp, E. 1898 B, 850 (Siredon).
 1899 A, 1041 (Siredon).
 1905 D, 947, fig. 14.
Gaupp, E. 1913 A, 44, figs. 15, 42 (Amblystoma).
Gegenbaur, C. 1862 A, 180, 192 (Siredon).
Giebel, C. G. 1855 A, 98 (Amblystoma).
Goepfert, E. 1896 B, 12, fig. 12 (Siredon).
Goodrich, E. S. 1911 A, 103, figs. 29-51 (Amblystoma).
Gray, J. E. 1850 A, 34.
Gregory, W. K. 1920 A, 117, fig. 22 (Amblystoma).
Gregory, Miner and Noble 1922 A, 283, figs. 2, 3.
Grote, A. 1926 A, 458, figs. 1-6 (Siredon).
Hanson, F. B. 1919 B, 68, fig. 22.
Hasse, C. 1873 B, 611, pl. xix (Siredon).
 1873 D, 679 (Siredon).
 1892 C, 17 ("axolotl").
Hasse and Schwarek 1870 A, 49 (Siredon).
Hay, O. P. 1889 B, 602 (Amblystoma).
Heilprin, A. 1837 A, 306 (Amblystoma).
Hertwig, O. 1874 B, pls. i-v (Siredon).
Higgins, G. M. 1920 A, 293 (Amblystoma).
Hoeven, J. v. d. 1866 A, 365 ("axolotl").
Hoffmann, C. K. 1874 A (Amblystoma, Siredon).
 1878 B, 666, pls. viii, x (Amblystoma, Siredon).
Huene, F. 1922 G, 455.
Huxley, T. H. 1863 F, 429 (Siredon).
 1872 A, 156, 161, fig. 58 (Siredon).
 1874 B, 13 (Amblystoma).
 1875 A, 45 (Siredon).
 1875 C, 760 (Amblystoma).
Iwanzoff, N. 1894 A, 582 (Siredon).
Jaquet, M. 1897 A, 174 (Axolotl).
 1893 B, 321, figs. 60, 61 (Axolotl).
 1899 B, 189, pls. xli-xlv (Axolotl).
Kehrer, F. A. 1896 A, 352 (Amblystoma).
Kerr, J. G. 1902 A, 425 (Amblystoma).
Kesteven, H. L. 1919 A, 224 (Amblystoma).

- Kingsbury, B. F. 1895 A, 124, pls. i, ii (Amblystoma).
 1903 A, 326 (Amblystoma).
 Kingsbury and Reed 1908 A, 82, 83, figs. 1-7.
 1909 A, 554, 609, pls. i-iv.
 Kingsley, J. S. 1900 A, 210 (Amblystoma).
 1902 B, 329, 337 (Amblystoma).
 1912 B, 44, 48, 84, figs. 37, 43, 84.
 1925 A, 38, 125, 126, figs. 43, 132, 133 (Amblystoma).
 Kupffer, C. 1893 A, 546 (Amblystoma).
 Lebedinsky, N. G. 1917 A, 316 (Amblystoma).
 Leunis and Ludwig 1883 A (Amblystoma).
 Malbranc, M. 1875 A (Siredon).
 Meyer, H. 1860 E, 48 (Siredon).
 Miner, R. W. 1925 A, 171, 174, 179 (Amblystoma).
 Mivart, St. G. 1870 A, 264 (Amblystoma).
 1874 B, 182, fig. 61 ("axolotl").
 Moodie, R. L. 1908 G, 519.
 Noble, G. K. 1921 A, 3.
 1925 C, 1.
 1926 A, 1.
 Owen, R. 1844 C, 23, fig. (Axolotes).
 1845 B, 189, pl. lxii, fig. 4 (Axolotes).
 1866 A, 87 (Axolotes).
 Parker, W. K. 1877 B, 529, pls. xxi-xxvii (Amblystoma).
 1882 D, 209 (Amblystoma).
 Parker and Bettany 1877 A, 122 (Amblystoma).
 Parker and Haswell 1897 A, 278, 289, 891, 896 (Amblystoma).
 Peter, K. 1898 A, 587 (Siredon).
 Rabl, C. 1901 A, 513 ("axolotl").
 Reed, H. D. 1920 A, 325 (Amblystoma).
 Retterer, E. 1908 A, 486 ("axolotl").
 1908 B, 537 ("axolotl").
 Reynolds, S. H. 1897 A, 135, 175 (Amblystoma).
 Röse, C. 1894 C, 180 (Amblystoma).
 Sehmalhausen, J. J. 1916 B, 139 (Siredon).
 1910 A, 439 (Amblystoma).
 Scott, P. G. 1916 A, 309 (Amblystoma).
 Sewertzoff, A. N. 1896 A, 245 (Siredon).
 1908 A, 171, 345 (Siredon); 359 (Amblystoma).
 Sirena, S. 1872 A, 125, 134 (Siredon).
 Stadtmüller, F. 1926 A, 159, fig. 5 (Amblystoma).
 Stannius, H. 1856 A (Siredon).
 Steiner, H. 1921 A, 516, 520, figs. 1, 8, 14.
 1922 A, 317, 331, 340 (Amblystoma).
 Stöhr, P. 1880 A, 487, 504 (Siredon).
 Sutton, J. B. 1884 A, 567 (Siredon).
 Taschenberg, O. 1894 A, 3530 (Amblystoma).
 Terry, R. J. 1906 A, 95 (Amblystoma).
 Versluys, J. 1912 C, 318, figs. 7, 18.
 Wallace, A. R. 1876 A, ii, 413 (Amblystoma).
 Wegner, R. N. 1922 A, 417 (Amblystoma).
 Wiedersheim, R. 1877 A, pls. (Amblystoma).
 1877 B, *passim*, pl. i, fig. 6; pl. iii, figs. 28-34, 36, 44; pl. v, fig. 73 ("axolotl"); pl. v, figs. 75-77 (Amblystoma).
 1879 A, 216, pls. xi, xii (Amblystoma).
 1880 D, 581, pl. xxx ("axolotl").
 Wilder, I. W. 1920 A, 349.
 Winslow, G. M. 1898 A, 150, figs. 1-13 (Amblystoma).
 Wintrebert, P. 1910 A, 178, 419 (Amblystoma).
 1910 B, 129 ("axolotl").
 Zwick, W. 1897 A, 66 (Siredon).
Ambystoma? sp. indet.
 Brown, B. 1908 A, 206, pl. xxii (Amblystoma?).
 Pleistocene; Arkansas.

PLETHODONTIDÆ Gray.

- Gray, J. E. 1850, Cat. Batr. Grad. Brit. Mus., 31.
 Boulenger, G. A. 1882 A, 51 (Plethodontinæ).
 Cope, E. D. 1889 D, 33, 119, 523.
 Noble, G. K. 1925 C, 3.
 Noble, G. K. 1927 A, 1, figs. 1-10.
 Peterson, O. A. 1926 A, 251.
 Stejneger and Barbour 1923 A, 8.
 Peterson, O. A. 1926 A, 251. Pleistocene; Pennsylvania.

UNDETERMINED GENUS AND SPECIES OF PLETHODONTIDÆ.

Desmognathus sp. indet.

- Peterson, O. A. 1926 A, 252 (This genus?).
 Pleistocene; Pennsylvania.

SALAMANDRIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 68.
 Abel, O. 1919 A, 330.
 1921 A, 252 ("salamandren").
 Albrecht, P. 1883 C, 196, fig. 4 (Salamandra).
 Allis, E. P. 1919 E, 368 (Salamandra).
 Altmann, F. 1925 A, 88, figs. 1-5 (Salamandra).
 Anton, W. 1911 A, 179 ("salamandriden").
 Arldt, T. 1916 A, 105 ("salamandriden").
 Beer, G. R. 1926 A, 308, figs. 73-75 (Salamandra).
 Bischoff, T. L. W. 1840 B, 114 ("salamandres").
 Blainville, H. M. D. 1835 A, 281 ("salamandres").
 Bolk, L. 1913 A, 115, fig. 74 (Triton).
 Carus, V. 1875 A, 481 (Salamandrina).
 Cope, E. D. 1859 A, 122.
 1885 DD, 315.
 Cunningham and Boulenger 1912 A, 161, 168.
 Cuvier, G. 1805 A ("salamandres").
 1825 A, v, 2, 406, pl. xxv ("salamandres").
 Dollo, L. 1884 D, 91.
 Drüner, L. 1904 B, 362 (Salamandra).
 Dunn, E. R. 1922 A.
 1923 A, 132.
 Frassetto, F. 1915 A, figs. 7, 13 (Salamandra).
 Gadow, H. 1896 A, 4, figs. 1-3, 9-13 (Salamandra, Triton).
 1901 B, 102.
 Gaupp, E. 1899 A, 1042 (Ranodon).
 1900 A, 566 ("triton").
 1902 A, 168, fig. 3 (Triton).
 1905 D, 931, 936, figs. 9-13 ("salamandriden").
 Gegenbaur, C. 1862 A, 180 (Salamandra).
 1867 B, 396 ("salamandriden").

- Geoffroy St. Hilaire, E. F. 1832 A, 351 ("salamandres").
- Gervais, P. 1859 A, 498 ("salamandrides").
- Goeppert, E. 1896 B, 5, figs. 4-11 (Salamandra, Triton).
- Gray, J. E. 1825 A, 215.
- Grote, A. 1926 A, 484 (Salamandra).
- Hase, A. 1913 A, fig. 50.
- Hasse, C. 1873 B, 615 (Salamandrinæ).
1892 A, 254 ("salamandrinen").
1892 C, 1 (Triton).
- Hasse and Schwarek 1870 A, 35, 50 ("salamandriden").
- Hatschek, B. 1889 A, 84, fig. 2 ("salamander").
- Henshaw, H. W. 1912 A, 318 ("salamanders").
- Hertwig, O. 1874 B, pls. i-v ("salamandrinen").
- Hilzheimer, M. 1913 A, 473 ("salamandriden").
- Hoeven, J. v. d. 1866 A, 364 (Salamandra).
- Hoffmann, C. K. 1874 A (Salamandra).
1878 B, 666 (Salamandrida).
- Hofmann, K. 1923 A, 432 (Salamandra).
- Hogg, J. 1839 A, 274.
1841 A, 361.
- Howes, G. B. 1893 B, 276 (Salamandra).
- Huxley, T. H. 1859 D, 403 (Triton).
1863 C, 569 ("salamander").
1874 B, 14 ("salamanders").
1875 A, 45 (Triton).
1875 C, 760 (Salamandrida).
1879 A, pl. iii (Salamandra).
- Iwanzoff, N. 1894 A, 582 (Salamandra).
- Jaekel, O. 1909 D, 722 (Triton).
- Kapelkin, W. 1900 A, pls. v, vi (Salamandra, Triton).
- Kehrer, F. A. 1896 A, 352 ("salamandriden").
- Kerbert, C. 1876 A, 215 (Triton).
- Kingsbury and Reed 1908 A, 88.
- Kingsley, J. S. 1901 B, 337 (Salamandrina).
1925 A, 246 (Salamandrina).
- Klaauw, C. J. 1924 B, 576 (Salamander).
- Klitz, J. H. 1911 A, 165 (Salamandra).
- Köstlin, O. 1844 A ("Salamander").
- Kupffer, C. 1893 A, 530 (Salamandra, Triton).
- Lavoat, A. 1885 A, 33 ("salamandres").
- Leunis and Ludwig 1833 A, 624 (Mecodonta).
- Leydig, F. 1890 A, 465 (Salamandra).
- Lobley, J. L. 1908 A, 203, 209.
- Loomis, F. B. 1919 A, 217.
- Malbranc, M. 1875 A (Salamandrina).
- Meekel, J. F. 1825 A ("salamander").
- Meyer, H. 1860 E, 47 ("salamandriden").
- Mivart, St. G. 1870 A, 264, fig. 12.
- Mivart and Clarke 1879 A, 524, text-fig. 6 (Salamandra).
- Mollier, S. 1895 B, 2 (Salamandra).
- Nauck, E. T. 1926 B, 38, 75, figs. 6, 7 (Triton).
- Noble, G. K. 1922 A, 62 ("salamandrids").
- Nopesa, F. 1923 B, 354 ("molehe").
- Oken, L. 1823 B, 445 ("lurehe").
- Owen, R. 1845 B, 193 ("newts").
1866 A.
1868 A, 907.
- Palacký, J. 1899 B, 1 ("salamandriden").
- Paramore, R. H. 1910 A, 1395 ("salamander").
- Parker, W. K. 1882 C, 195, 197, pls. xl, xli ("newts").
- Parker and Bettany 1877 A, 134 (Triton).
- Parker and Haswell 1897 A, 280, figs. 893, 896, 897.
- Perrin, A. 1899 A, 522, fig. 2 (Triton).
- Peter, K. 1898 A ("salamandriden").
- Petronievics, B. 1921 A, 107, 109 ("salamandrines").
- Pompeckj, J. F. 1912 A, 340.
- Rabl, C. 1901 A, 500 (Triton).
- Reichert, K. B. 1849 A, 510 ("tritonen").
- Retterer, E. 1908 A, 487 ("salamandre").
1908 B, 537 ("salamandre").
- Reynolds, S. H. 1897 A, 135, 173, 182 (Salamandrida).
- Röse, C. 1894 C, 180 (Triton).
- Schmalhausen, J. J. 1910 A, 431 (Salamandrella).
1916 B, 143 (Triton).
1917 B, 130 ("tritons").
- Sewertzoff, A. N. 1908 A, figs. 16, 17 (Triton).
1926 D, 84 (Salamandrella).
- Seydel, O. 1899 A (Salamandra).
- Sirena, S. 1872 A, 126, 134 (Triton).
- Stadtmüller, F. 1925 A, figs. 1-41 (Salamandra).
1926 A, 157, figs. 3-5 (Salamandra).
- Stannius, H. 1856 A, 4, seq. (Salamandra).
- Steiner, H. 1921 A, 520.
- Stejneger, L. 1907 C, 11.
- Stöhr, P. 1880 A, pls. xxix, xxx (Triton, Salamandra).
- Strasser, H. 1879 A, 240 ("salamander").
- Tarapani, H. 1909 A, 57 (Salamandra, Triton).
- Taschenberg, O. 1894 A, 3543.
- Terra, P. 1911 A, 224.
- Tomes, C. S. 1875 A, 94 ("newt").
- Versluys, J. 1912 C, 313, figs. 3, 5, 6, 9, 22 (Salamandra).
- Villiers, C. G. S. 1922 A, 191 ("salamandriden").
- Vitali, G. 1909 A, 208 (Triton).
- Wagner, R. 1843 A ("salamander").
- Wallace, A. R. 1876 A, ii, 413.
- Wiedersheim, R. 1880 A, 26 ("salamandriden").
1892 A, 48 ("salamandrinen").
- Wintrebert, P. 1910 A, 300 ("salamander").
1910 B, 78, 173 ("salamandrides").
- Zittel and Broili 1911 A, 176 (Salamandrina).
1923 A, 206 (Salamandrina).
- Zwief, W. 1897 A, 69 (Triton, Salamandra).
Ototriton formerly assigned to this family is now referred to the reptilian family Amphisbænidæ.

Order SALIENTIA Laurenti.

- Unless otherwise indicated the authors quoted employ the name *Anura*.
- Laurenti, J. N. 1768, Syn. Rept., 24.
- Hay, O. P. 1902 A, 424 (Salientia).
- Abel, O. 1919 A, 311.
1920 A, 346.
1921 A, 144 ("anuren").
- Adams, L. A. 1919 A, 145.
- Agassiz, L. 1844 D, 137 ("batracians").
- Albrecht, P. 1883 C, 195 ("anoures").
- Allis, E. P. 1923 A, 48.
- Anderson, R. J. 1912 D, 251.
- Anthony, R. 1913 A, 243 ("anoures").
- Anthony and Vallois 1914 A, 220 ("anoures").

- Arlt, T. 1907 D, 638.
 1912 A, 678.
 1916 A, 114 ("anuren").
- Baraldi, G. 1877 A, 8 ("anoures").
- Bardeleben, K. 1889 A, 107 ("anuren").
 1901 A ("anuren").
 1904 A, 109 ("anuren").
- Baur, G. 1885 L ("batrachians").
 1897 D, 52 (Ecaudata).
- Beer, G. R. 1926 A, 310.
- Bender, O. 1907 A, 40 ("anuren").
 1910 A, 125 ("anuren").
- Beyer, H. 1907 A, 269 ("batrachier").
- Blainville, H. M. D. 1835 A, 274 (Batrachia).
- Boas, J. E. V. 1914 B, 554 ("anuren").
- Bonaparte, C. L. 1832 A, 318 (Anoura).
 1833 B, 1186 (Caducibranchia).
- Boulenger, G. A. 1901 B, 402.
 1902 F, 383 (Ecaudata).
- Braus, H. 1906 A ("anuren").
 1909 A.
- Bridge, T. W. 1878 A, 725.
- Broom, R. 1899 A, 766.
 1909 B, 165.
- Carter, J. T. 1905 A, 129, 140.
- Carus, V. 1875 A, 473.
- Cligny, A. 1899 A, 133 ("batraciens").
- Cope, E. D. 1865 B, 97-120.
 1865 C, 97.
 1885 BB, 65.
 1885 DD, 317.
- Coyle, R. F. 1909 A, 582.
- Cunningham, J. T. 1897 A, 487 (Batrachia).
- Cunningham and Boulenger 1912 A, 165, 169, 211.
- Dana, J. D. 1863 A, 1 ("tailless batrachians").
- Delsman, H. C. 1924 A, 155.
- Dollo, L. 1884 D, 86 (Anura).
 1885 C, 303 ("anoures").
- Dombrowsky, B. A. 1918 A, 197, 204.
 1925 A, 71, fig. 2.
- Duméril, A. M. C. 1906 A, 92 (Ecaudati).
- Dunn, E. R. 1923 A, 130.
- Ebner, V. 1896 A, 146 ("batrachier").
- Edgeworth, F. H. 1920 A, 127.
 1925 A, 225.
- Eimer, G. H. T. 1901 A, 62, 242 ("anuren").
- Elliot, A. I. M. 1907 A, 648.
- Emery, C. 1890 A, 283 ("anuren").
 1895 A, 218 ("anoures").
- Fejérváry, G. J. 1917 A, 1-38 ("anoures").
 1921 C, 1-30.
- Frassetto, F. 1915 A ("anuri").
- Fuchs, H. 1908 A, 354 ("anuren").
 1909 B, 122, 148 ("anuren").
 1909 D, 8, 76 ("anuren").
 1911 A, 34 ("anuren").
 1912 D, 153 ("anuren").
 1922 A, 283.
 1926 A, 119.
 1926 B, 1-34.
- Fürbringer, M. 1904 A, 594 ("anuren").
- Gadow, H. 1901 A, 398.
 1901 B, 18, 138 (Salientia).
 1902 B, 346.
 1905 A, 205.
- Gaupp, E. 1895 A, 58, seq. ("anuren").
 1898 B ("anuren").
- Gaupp, E. 1899 A, 1004, 1047 ("anuren").
 1900 A, 574 ("anuren").
 1901 B, 950 ("anuren").
 1902 A, 217 ("anuren").
 1905 A, 286.
 1905 D, 931, 969 ("anuren").
 1906 A, 24 ("anuren").
 1906 B, 718 ("anuren").
 1910 C, 406.
 1911 A, 418, 422 ("anuren").
 1911 B, 116 ("anuren").
 1911 C, 441 ("anuren").
 1913 A, 23 ("anuren").
- Gegenbaur, C. 1867 B, 404.
 1888 A, 394 ("anuren").
- Gelderen, C. 1922 A, 234.
 1923 A, 15.
 1925 A, 502.
- Gervais, P. 1853 B, 54 ("anoures").
- Gill, T. 1897 A, 447 (Salientia).
- Goeppert, E. 1896 B, 20 ("anuren").
 1897 A, 248 ("anuren").
- Gray, J. E. 1825 A, 213 (Anoura).
- Gregory, W. K. 1917 B, 317.
 1920 A, 224.
- Gregory and Adams 1915 A, 763.
- Gregory, Miner and Noble 1923 A, 285.
- Günther, A. 1858 A, 339, 342.
- Haeckel, E. 1868 A, 450.
- Hase, A. 1913 A, figs. 39, 45.
- Hasse, C. 1873 B, 614 ("batrachier").
 1892 A, 253 ("anuren").
- Hasse and Schwarck 1870 A, 48, 51 ("batrachier").
- Heilprin, A. 1887 A, 307.
- Henshaw, H. W. 1912 A, 318 ("frogs and toads").
- Hertwig, O. 1874 B, 21 ("anuren").
- Higgins, G. M. 1920 A, 293.
- Hilzheimer, M. 1913 A, 475 ("anuren").
- Hoernes, R. 1886 A, 577.
- Hoeven, J. v. d. 1866 A, 364 (Anoura).
 1891 A, 158, pl. xiv, fig. 3.
- Hoffmann, C. K. 1878 B, 612.
- Hommcs, J. H. 1924 A, 37 ("anoures").
- Howes, G. B. 1893 B, 270.
 1902 A, 525.
- Howes and Swinnerton 1901 A, 17.
- Huene, F. 1922 G, 454 ("anuren").
 1926 A, 265 ("anuren").
- Huxley, T. H. 1859 D, 412, 445.
- Ihering, H. 1880 A, 299 ("anuren").
- Iwanzoff, N. 1894 A, 579 ("anuren").
- Jacobshagen, E. 1920 A, 91 ("anwien").
- Jaekel, O. 1909 A, 194 ("anuren").
- Kapelkin, W. 1900 A ("anuren").
- Kehrer, F. A. 1896 A, 353.
- Kingsley, J. S. 1900 A, 212.
 1901 B, 337.
 1925 A, 40, 130, 280.
- Klaauw, C. J. 1924 B, 579.
- Klein, E. F. 1868 A (Ecaudata).
- Köstlin, O. 1844 A ("ungeschwänzte").
- Koken, E. 1896 B, 143.
- Kothe, K. 1910 A, 29 ("anuren").
- Kravetz, L. P. 1906 A, 6.
- Laaser, P. 1903 A, 573 ("frösche").

- Lakjer, T. 1927 A, 202 ("anuren").
 Lataste, F. 1888 A, 236 ("anoures").
 Lavocat, A. 1885 A, 33 ("anoures").
 1889 A, 43 ("batraciens").
 Lebedinsky, N. G. 1917 A, 316 ("anuren").
 LeDamany, P. 1902 A, 334 ("anoures").
 1906 A, 58 ("anoures").
 1906 B, 158 ("anoures").
 Leunis and Ludwig 1883 A, 607.
 Malbranc, M. 1875 A (Batrachia).
 Meckel, J. F. 1825 A ("ungeschwänzte").
 Metcalf, M. M. 1923 A, 388.
 Moodie, R. L. 1909 D, 243 (Salienta).
 1909 F, 220 (Salienta).
 1911 H, 243 (Salienta).
 1912 B, 286 (Salienta).
 1914 B, 531 (Salienta).
 1915 F, 190 (Salienta).
 1915 H, 638 (Salienta).
 1916 A, 4, 72 (Salienta).
 Nicholls, G. E. 1915 A, 239.
 1916 E, 80.
 Noble, G. K. 1922 A, 1-78, pls. i-xxiii.
 1925 A, 265.
 1925 B, 1.
 1925 C, 1, 7.
 1926 B, 1 ("frogs").
 1926 C, 1.
 Osborn, H. F. 1917 B, 178.
 Owen, R. 1848 B, 88 ("anourans").
 1866 A, 15 (Theriomorpha, Anura).
 1868 A, 911.
 Palacký, J. 1898 B, 374 ("batrachier").
 Parker, W. K. 1879 C, 332 (Batrachia).
 1880 B, 161 (Batrachia).
 1887 B, 53 ("anourans").
 Parker and Haswell 1897 A, 273.
 Pehrson, T. 1922 A.
 Perrin, A. 1896 A, 90 ("anoures").
 Petersen, H. 1922 A, 22, figs. 1-6 ("anuren").
 Petronievics, B. 1921 A, 107 ("anoures").
 Pfeiffer, H. 1854 A, 46 ("ungeschwänzte").
 Pompeckj, J. F. 1912 A, 338, 343.
 Proctor, J. B. 1921 A, 197 (Ecaudata).
 Puccioni, N. 1908 A, 56 (Batraci).
 Rabl, C. 1903 A, 184 ("anuren").
 Reynolds, S. H. 1897 A, 532.
 Ridewood, W. G. 1897 A, 359.
 1897 C.
 1898 A, 474.
 Röse, C. 1892 G, 141 ("batrachier").
 Sabatier, A. 1902 A, 99 ("anoures").
 Sagemehl, M. 1883 A ("anuren").
 Schauinsland, H. 1906 A, 490 ("anuren").
 Schmalhausen, J. J. 1907 A, 178 ("anuren").
 1908 A, 337 ("anuren").
 1916 B, 138.
 1917 A, 103.
 Schöne, G. 1902 A, 9 ("anuren").
 Schuchert, C. 1915 A, 800.
 Schwarz, H. 1908 B, 101 ("anuren").
 Seeley, H. G. 1872 B, 27 ("anurous amphibia").
 1888 I, 235.
 Sewertzoff, A. 1896 A, 207.
 1904 A, 484.
 1908 A, 359 ("anuren").
 1926 D, 75, fig. 4 ("anuren").
 Sollas, W. J. 1920 A, 525.
 Sonies, F. 1907 A, 405 ("anuren").
 Spencer, W. B. 1886 A, 173.
 Steiner, H. 1921 A, 519 ("anuren").
 Stejneger, L. 1907 A, 47.
 Stejneger and Barbour 1917 A, 25 (Salientia).
 Sterling, S. 1908 A, 334.
 Stöhr, P. 1881 A, 68 ("anuren").
 Strecker, C. 1887 A, 307 ("batrachier").
 Stromer, E. 1912 A, 57.
 Suschkin, P. P. 1910 A, 244.
 Taschenberg, O. 1894 A, 3547 (Ecaudati).
 Terra, P. 1911 A, 224.
 Tschudi, J. J. 1839 A, 25 (Batrachia).
 Van Gelderen, C. 1925 A, 505 ("anuren").
 Versluys, J. 1912 B, 566 ("anuren").
 1912 C, 314 ("anuren").
 Vialleton, L. 1917 A, 191 ("anoures").
 Villiers, C. G. S. 1922 A, 153-225 ("anuren").
 Virchow, H. 1914 C, 132 ("anuren").
 Wagner, R. 1843 A.
 Watson, D. M. S. 1914 D, 168 (Batrachia).
 1916 C, 632.
 1917 A, 979 ("frogs and toads").
 1917 B, 56.
 1919 B, 58 (Ecaudati).
 1919 C, 239.
 Wegner, R. N. 1922 A, 418 ("anuren").
 Wiedersheim, R. 1892 A, 50 ("anuren").
 Williston, S. W. 1914 A, 3 ("frogs").
 1916 B, 211 (Batrachia).
 Winslow, G. M. 1898 A, 172.
 Wintrebert, P. 1910 B, 172 ("anoures").
 Wortman, J. L. 1920 A, 42 ("anurous batrachia").
 Zittel and Broili 1911 A, 177.
 1923 A, 206.
 Zittel, Eastman, etc. 1902 A, 137.

Suborder BUFONIFORMES Cope.

- Cope, E. D. 1865 B, 97, 100, 104 (Bufoniformia).
 Abel, O. 1919 A, 322 (Arcifera).
 Arldt, T. 1916 A, 116, 143 ("arciferen").
 Braus, H. 1919 A, 7, 16, 44 (Arcifera).
 Cope, E. D. 1866 F, 67.
 1867 G, 189, 199.
 1875 X, 30 (Bufoniformia, Arcifera).
 1885 DD, 326 (Arcifera).
 1889 D, 246, 248, 253 (Arcifera).
 1891 N, 33 (Arcifera).
 Cunningham and Boulenger 1912 A, 166 (Arcifera).
 Duméril and Bibron 1841, Erpet. Gen., viii, 50, 303 ("bufoniformes").
 Fejérváry, G. J. 1921 C, 23 ("Arcifera"); 127 (Bufonimorpha).
 Gelderen, C. 1925 A, 501 (Arcifera).
 Lydekker, R. 1890 A, 124 (Arcifera).
 Noble, G. K. 1922 A, 12, 22, 41, table 2 (Pro-cœla); 17 (Arcifera).
 Pompeckj, J. F. 1912 A, 338, 344 (Arcifera).
 Proctor, J. B. 1921 A, 197 (Arcifera).
 Villiers, C. G. S. 1922 A, 155, 163 (Arcifera).

PELIONTIDÆ Cope.

- Cope, E. D. 1875 X, 11.
 Hay, O. P. 1902 A, 410 (Protritonidæ).
 Gregory, W. K. 1917 B, 313 (Peleontidæ).
 Moodie, R. 1916 A, 72.

PELION Wyman. Type *P. lyellii* Wyman.

- Hay, O. P. 1902 A, 411.
 Abel, O. 1919 A, 296.
 Case, E. C. 1917 A, 135.
 1919 B, 200.
 Gaudry, A. 1875 A, 304 (Raniceps).
 Gregory, W. K. 1917 B, 316.
 Heilprin, A. 1887 A, 310.
 Huxley, T. H. 1863 C, 571 (Raniceps).
 Moodie, R. L. 1909 E, 40.
 1916 A, 72.
 Owen, R. 1860 E, 183 (Raniceps).
 Pompeckj, J. F. 1912 A, 346.
Pelion lyellii Wyman.
 Hay, O. P. 1902 A, 411.
 Gaudry, A. 1875 A, 304 (Raniceps).
 Gaudry, A. 1875 E, 443 (Raniceps).
 Gregory, W. K. 1917 B, 316 (P. lyelli).
 Metcalf, M. M. 1923 A, 405.
 Moodie, R. L. 1908 E, 561, fig. 1.
 1908 F, 254 (P. lyelli).
 1909 B, 25.
 1909 D, 240, pl. i (P. lyelli).
 1909 E, 40 (P. lyelli).
 1912 B, 286.
 1914 A, 24 (P. lyelli).
 1914 B, 531 (P. lyelli).
 1916 A, 73, pl. xxiv, figs. 1, 17 (P. lyelli).
 Pompeckj, J. F. 1912 A, 346 (P. lyelli).
 Wyman, J. 1857 B, 172 ("batrachian reptile").
 1857 C, 360 ("reptile").
 Pennsylvanian (Linton); Ohio.

BUFONIDÆ Günther.

- Günther, A. 1858, Cat. Batr. Sal. Brit. Mus., 54.
 Arldt, T. 1907 D, 642.
 1912 A, 689.
 1916 A, 129, 143 ("bufoniden").
 Carus, V. 1875 A, 478.
 Cope, E. D. 1865 B, 102, 114.
 1885 DD, 327.
 Cunningham and Boulenger 1912 A, 166, 169.
 Cuvier, G. 1805 A ("crapauds").
 Dunn, E. R. 1923 A, 130.
 Fejérváry, G. J. 1917 A, 11, 18 (Bufonidæ, Bufoninæ).
 1921 A, 28 ("bufonides").
 1921 C, 19, 22.
 Gadow, H. 1901 B, 166.
 1905 A, 205.
 Gaupp, E. 1905 D, 991.
 Hasse, C. 1892 A, 254 ("kröten").
 Hoffmann, C. K. 1878 B, 607.
 Köstlin, O. 1844 A ("kröten").
 Leunis and Ludwig 1883 A, 616.
 Lobley, J. L. 1908 A, 203.
 Meckel, J. F. 1825 A ("kröten").
 Metcalf, M. M. 1923 A, 401, fig. 12.
 Moodie, R. L. 1912 B, 287.
 Nicholls, G. E. 1916 A, 81.
 Noble, G. K. 1922 A, 20, 22, 67.
 1926 A, 12.
 Owen, R. 1845 B, 194.
 1866 A, 15.
 Palacký, J. 1898 B, 376.
 Proctor, J. B. 1921 A, 208, 214.
 Ridewood, W. G. 1898 A, 475, 482.
 Stannius, H. 1856 A (Bufonion).
 Steiner, H. 1921 A, 528.
 Stejneger, L. 1907 C, 55.
 Wallace, A. R. 1876 A, ii, 415.
 Zwick, W. 1897 A, 100.

Bufo laurenti. Type *Bufo vulgaris* Laurenti.

- Laurenti, J. N. 1768, Syn. Rept., 25.
 Abel, O. 1919 A, 315, fig. 238.
 Adolphi, H. 1896 A, 115, pl. viii.
 Anthony and Vallois 1914 A, 259.
 Arldt, T. 1907 D, 642.
 1916 A, 121.
 Bardeleben, K. 1901 A, 51.
 Blainville, H. M. D. 1835 A, 277.
 Boas, J. E. V. 1914 C, 253, figs. 30, 31.
 Braus, H. 1909 A.
 1919 A, 10, 25, fig. 1.
 Bronn, H. G. 1849 A, 684.
 Camp, C. L. 1917 A, 289.
 Cope, E. D. 1885 DD, 321.
 Cunningham and Boulenger 1912 A, 166.
 Dunn, E. R. 1923 A, 131.
 Eggert, B. 1927 A, 566.
 Eimer, G. H. T. 1901 A, 256.
 Field, H. H. 1895 A, 341.
 Foote, J. S. 1916 A, 46, pl. iii.
 Frassetto, F. 1915 A.
 Gadow, H. 1896 A, 15.
 Gadow, H. 1901 B, 169.
 Gaupp, E. 1899 A, 1052.
 Giebel, C. G. 1855 A, 98.
 Goeppert, E. 1896 B, 25, fig. 19.
 Gregory, W. K. 1920 A, 118, fig. 25.
 Hanson, F. B. 1919 B, 68, fig. 21.
 Hasse, C. 1892 A, 254.
 Heilprin, A. 1887 A, 307, 312.
 Hoffmann, C. K. 1874 A, 18, 28.
 1878 B, 608, 643, pls. x-xii, xiv, xv.
 Iwanzoff, N. 1894 A, 580.
 Kingsley, J. S. 1925 A, 247, fig. 261.
 Metcalf, M. M. 1923 A, 401, fig. 11.
 Miller, N. 1909 A, 641.
 Moodie, R. L. 1912 B, 287.
 Nehring, A. 1880 A.
 Nicholls, G. E. 1914 A, 420.
 1916 A, 80.
 Noble, G. K. 1922 A, 20, 25.
 1925 A, 271.
 Owen, R. 1848 B, 88.
 1866 A, 177, 183.

- Owen, R. 1868 A, 868.
 Palacký, J. 1898 B, 374.
 Parker, W. K. 1877 B, 582.
 1880 B, 161.
 Parker and Bettany 1877 A, 177.
 Proctor, J. B. 1921 A, 208.
 Reynolds, S. H. 1897 A, 169, 182, 186.
 Ridewood, W. G. 1897 A.
 1897 C.
 Schmalhausen, J. J. 1908 A, 341, fig. 4.
 1917 A, 102.
 Stannius, H. 1856 A, 41, 42.
 Stejneger, L. 1907 C, 55.
 Stephan, P. 1900 A, 332.
 Strecker, C. 1887 A, 307.
 Taschenberg, O. 1894 A, 3548.
 Versluys, J. 1912 C, 315, fig. 19.
 Zwick, W. 1897 A, 100, fig. 19.

Bufo boreas halophilus Baird and Girard.

- Baird and Girard* 1853, Proc. Acad. Nat. Sci. Phila., 101 (B. halophila); 378 (B. boreas).
 Boulenger, G. A. 1882 B, 295 (B. halophilus); 296 (B. boreas).

EOBATRACHUS Marsh. Type *E. agilis* Marsh.

- Hay, O. P. 1902 A, 425.
 Arldt, T. 1912 A, 668.
 1916 A, 114, 118, 120.
 Fejérváry, G. J. 1921 C, 29.
 Simpson, G. G. 1926 H, 204.

Eobatrachus agilis Marsh.

- Hay, O. P. 1902 A, 425.
 Arldt, T. 1916 A, 114.
 Fejérváry, G. J. 1917 A, 6.
 Lydekker, R. 1913 A, 19.

- Camp, C. L. 1917 A, 287.
 Cope, E. D. 1889 D, 267, 269, figs. (B. columbiensis halophilus).
 Girard, C. 1854, in Baird, U. S. Mex. Bound. Surv., 26, pl. xli (B. halophila).
 1858, U. S. Explor. Exped., Herp., 74, pl. vi (B. boreas).
 Recent; California, Nevada, Lower California: Pleistocene; California.

Bufo nestor Camp.

- Camp, C. L.* 1917 A, 287, figs. 1-3.
 Hay, O. P. 1927 D, 187.
 Merriam, J. C. 1915 G, 96 ("toad").
 Pleistocene (La Brea); California.

Bufo sp. indet.

- Brown, B. 1908 A, 206, pl. xxii. Pleistocene; Arkansas.
 Hay, O. P. 1924 D, 252. Pleistocene; Arkansas.
 1927 D, 136. Pleistocene? Arizona (This genus?).
 Moodie, R. L. 1914 B, 536. Miocene; Kansas.

Suborder RANIFORMES Cope.

- Cope, E. D.* 1865 B, 97, 104, 114 (Raniformia).
 Abel, O. 1919 A, 324 (Firmisternia).
 Arldt, T. 1916 A, 131, 143 ("firmisternier").
 Boulenger, G. A. 1882 B, 2 (Firmisternia).
 Braus, H. 1919 A, 7, 9, 44 (Firmisternia).
 Carus, V. 1875 A, 474 (Raniformia).
 Cope, E. D. 1866 F, 190.
 1867 G, 189, 190 (Raniformia).
 1875 X, 8, 32 (Raniformia).
 1885 DD, 339 (Firmisternia).
 1885 GG, 318, 341 (Firmisternia).
 1889 D, 246, 248, 383 (Firmisternia).
 1891 N, 33 (Firmisternia).
 Cunningham and Boulenger 1912 A, 165 (Firmisternia).
- Duméril and Bibron 1841, Erpet. Gen., viii, 50, 303, 304 ("raniformes").
 Fejérváry, G. J. 1921 C, 23 ("Firmisternia"); 27 (Ranomorpha).
 Hoffmann, C. K. 1878 B, 608 (Raniformia).
 Lataste, F. 1888 A, 237.
 Lydekker, R. 1890 A, 121 (Firmisternia).
 Nicholls, G. E. 1916 A, 87 (Diplasiocœla).
 Noble, G. K. 1922 A, 12, 22, 41, table 2 (Diplasiocœla); 17 (Firmisternia).
 1925 A, 265 ("frogs").
 Pompeckj, J. F. 1912 A, 338, 344 (Firmisternia).
 Villiers, C. G. S. 1922 A, 163 (Firmisternia).

RANIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 68.
 Hay, O. P. 1902 A, 425.
 Abel, O. 1912 F, 255 ("frösche").
 Ahlborn, F. 1896 B, 7 ("frösche").
 Anthony, R. 1913 A, 260.
 Arldt, T. 1907 D, 678.
 1916 A, 134 ("raninen").
 Bonaparte, C. L. 1833 B, 1186.
 Braus, H. 1919 A, 7, 9, 17.

- Carus, V. 1875 A, 474.
 Cope, E. D. 1865 B, 114.
 1867 G, 191.
 1885 DD, 340.
 Cunningham and Boulenger 1912 A, 165, 169.
 Cuvier, G. 1815 A, 106 ("grenouilles").
 Eimer, G. H. T. 1901 A, 258 ("frösche").
 Fejérváry, G. J. 1917 A, 21.
 1921 A, 29.

Fejérváry, G. J. 1921 C, 19.
 Gadow, H. 1901 B, 237.
 1905 A, 208.
 Gaupp, E. 1905 D, 979.
 1910 C, 406 ("frösche").
 Gelderen, C. 1922 A, 235.
 Geoffroy-St. Hilaire, E. F. 1817 B, 186
 ("grenouilles").
 1832 A, 350 ("grenouilles").
 Hasse, C. 1871 B, 377-416.
 1873 B, 615 ("frösche").
 1892 A, 254 ("frösche").
 Hay, O. P. 1923 A, 312.
 Hoffmann, C. K. 1878 B, 610, 613, 617.
 Hogg, J. 1839 A, 273.
 Kehrer, F. A. 1896 A, 353 ("frösche").
 Köstlin, O. 1844 A ("frösche").

Leunis and Ludwig 1883 A, 610.
 Lobley, J. L. 1908 A, 203.
 Matthew, W. D. 1915 A, 296.
 Meckel, J. F. 1825 A ("frösche").
 Metcalf, M. M. 1923 A, 389.
 Meyer, H. 1860 F, 123 ("frösche").
 Nicholls, G. E. 1916 A, 82.
 Noble, G. K. 1922 A, 22, 66.
 Palacký, J. 1898 B, 375 ("raniden").
 Ridewood, W. G. 1898 A, 475, 478.
 Roux, J. 1905 A, 777.
 Stannius, H. 1856 A (Ranina).
 Steiner, H. 1921 A, 524, 528.
 Stejneger, L. 1907 C, 92.
 Wagner, R. 1843 A ("frösche").
 Wallace, A. R. 1876 A, ii, 420.

RANA Linn. Type *R. temporaria* Linn.

Linnæus, C. 1758 A, i, 210.
 Hay, O. P. 1902 A, 425.
 Abel, O. 1912 F, 256, fig. 187.
 1919 A, 312, figs. 232, 239, 242, 243, 246, 247.
 Adams, L. A. 1919 A, 83, pl. v.
 Allis, E. P. 1909 A, 192 ("frog").
 1919 C, 259.
 1923 A, 48.
 Altmann, F. 1925 A, 92, figs. 6-8.
 Anthony and Vallois 1914 A, 235, figs. 13, 31-33.
 Arldt, T. 1907 D, 678.
 1916 A, 134.
 Baker, F. C. 1920 A, 213, 394.
 Beer, G. R. 1926 A, 311, figs. 76-80.
 Beyer, H. 1907 A, 270, figs. 2-5.
 Boas, J. E. V. 1914 C, 250, figs. 23-25.
 Bojanus, L. H. 1821 A, 1163.
 Boulenger, G. A. 1920 A, 412.
 Braus, H. 1909 A.
 1919 A, 13, 21, 41, figs. 6, 7, 8.
 Bronn, H. G. 1848 B, 1077.
 1849 A, 684.
 Broom, R. 1909 B, 162 ("frog").
 Carus and Engelmann 1861 A, 1794.
 Cleland, J. 1863 B, 312 ("frog").
 Cockerell, T. D. A. 1916 B, 183, 186 ("frog").
 Cope, E. D. 1865 B, 117.
 1885 DD, 319, 327, 341, figs. 189, 190.
 Cuvier, G. 1805 A.
 1825 A, v, 2, 386, pl. xxiv.
 Delsman, H. C. 1913 A, 677.
 Dombrowsky, B. A. 1918 A, 197, fig. 1.
 Ebner, V. 1896 A, 149.
 Edgeworth, F. II. 1920 A, 127, figs. 1-22.
 1925 A, 231.
 Eggert, B. 1927 A, 566.
 Eisler, P. 1895 A, 54.
 Elliot, A. I. M. 1907 A, 647.
 Emery, C. 1890 A, 285, fig. 1.
 Fejérváry, G. J. 1916 A, 131, pls. xi-xii; text-
 figs. 1-22.
 Field, H. H. 1895 A, 341, pls. xii, xiii.
 Foote, J. S. 1916 A, 35, pl. i.
 1921 A, 4, pl. i, figs. 4, 5.
 Fuchs, H. 1909 C, 100, fig. 12.
 1922 A, 283, figs. 1-3.
 1926 A, 120, figs. 1-6.
 1926 B, 1-34, figs. 1-4.

Gadow, H. 1901 B, 249.
 Gaupp, E. 1899 A, 1014, 1050 ("frosch").
 1900 A, 567.
 1901 B, 953, figs. 2, 3.
 1902 A, 167, fig. 2.
 1905 D, 971, fig. 22.
 1906 B.
 1908 B, 524.
 1908 C, 668.
 1910 C.
 1911 C, 442.
 1913 A, 10, fig. 3.
 Gebhardt, F. A. M. W. 1907 A, 77.
 Gegenbaur, C. 1862 A, 179, pl. ("frosch").
 Gelderen, C. 1923 A, 30.
 Gervais, P. 1859 A, 494, pl. lxiv.
 Giebel, C. G. 1855 A, 98, pl. xlii, figs. 2, 5.
 Goodsir, J. 1857 A.
 Gregory, W. K. 1920 A, 118, fig. 24.
 Hasse, C. 1871 B, 377-416, pl. xviii.
 1873 B, 618.
 1892 A, 254.
 Heilprin, A. 1887 A, 307, 308, 312.
 Hertwig, O. 1874 B, pls. i-v.
 Hoffmann, C. K. 1878 B, 612, 618, pls. ii-iv, x,
 xi, xiii, xv.
 Hommes, J. H. 1924 A, 37.
 Howes, G. B. 1893 B, 268, figs. 1-3.
 Huxley, T. H. 1853 A, 150 ("frog").
 1859 D, 403, fig. 9.
 1863 F, 428, figs. 39, 40 ("frog").
 Ihering, H. 1880 A, 300, fig. 2.
 Iwanzoff, N. 1894 A, 580.
 Kesteven, H. 1916 A, 304.
 1919 A, 223.
 Kingsbury, B. F. 1895 A, 132, pl. v, figs. 37, 38.
 1926 A, 98 ("frog").
 Kingsbury and Reed 1909 A, 609 ("frog").
 Kingsley, J. S. 1900 A, 212 ("frog").
 1925 A, 131, 133, 247, 248, 263, figs. 140-143,
 261-263, 303.
 Klaauw, C. J. 1924 B, 579.
 Köstlin, O. 1844 A.
 Kothe, K. 1910 A, 44, figs. 20, 22-25, 27.
 Lakjer, T. 1927 A, 202, figs. 108, 133.
 LeDamany, P. 1902 A, 337 ("grenouille").
 Leunis and Ludwig 1883 A, 611.
 Leydig, F. 1890 A, 442.

- Lobley, J. L. 1908 A, 199.
 Malbrane, M. 1875 A.
 Matthes, E. 1921 A, 217.
 Metcalf, M. M. 1923 A, 398, fig. 8.
 Meyer, H. 1860 F, 126, pls. xvi, xviii-xxii.
 Mivart, St. G. 1879 B, 539, figs. 7-9 ("frog").
 Nehring, A. 1880 A.
 Nieholls, G. E. 1915 A, 239, figs.
 Noble, G. K. 1922 A, 3, 25, 37.
 1925 A, 269, 271.
 1926 B, 10, 12, fig. 6.
 Osborn, H. F. 1926 C, 340.
 Owen, R. 1845 B, 193, pl. lxii, fig. 10.
 1848 B, 37, fig. 13.
 1868 A, 905.
 Palacký, J. 1898 B, 374.
 Parker, W. K. 1880 B, 161.
 Parker and Bettany 1877 A, 176.
 Parker and Haswell 1897 A, 245, figs. 869-886.
 Petersen, H. 1922 A, 23, figs. 1-3, 5.
 Pfeiffer, H. 1854 A, 46, pl. i, fig. 12.
 Prashad, B. 1918 A, 1, figs. 1-8.
 Proctor, J. B. 1919 A, 21.
 Retterer, E. 1908 A, 487.
 Reynolds, S. H. 1897 A, 541, figs. 24-26, 29,
 30 (Rana, "frog").
 Ridewood, W. G. 1897 A.
 1897 C.
 Roux, J. 1905 A, 783.
 Schauinsland, H. 1906 A.
 Schmalhausen, J. J. 1907 A, 183.
 Sehumann, A. 1904 A, 283.
 Sewertzoff, A. N. 1908 A, 370, fig. 33.
 Sirena, S. 1872 A, 128.
 Sonies, F. 1907 A, 442.
 Stannius, H. 1856 A.
 Stejneger and Barbour 1917 A, 35.
 Stöhr, P. 1881 A, 69, pls. ii, iii.
 Struck, W. 1915 A, 139, fig. 8.
 Sutton, J. B. 1884 A, 567.
 Tasehenberg, O. 1894 A, 3556.
 Tones, C. S. 1875 A, 94 ("frog").
 Van Gelderen, C. 1925 A, 501.
 Versluys, J. 1912 C, 315, figs. 1, 2, 4.
 Villiers, C. G. S. 1922 A, 154, fig. 1.
 Virehow, H. 1914 D, 320, fig. 1.
 Wilder, B. G. 1865 A, 56.
 Wyman, J. 1867 B, 261, fig. 7.
 Zittel and Broili 1911 A, 178.
 1923 A, 165, 207, figs. 260, 313, 314.
Rana sp. indet.
 Hay, O. P. 1902 A, 425.
 Brown, B. 1908 A, 206, pl. xxii. Pleistocene;
 Arkansas.
 Hay, O. P. 1927 D, 138. Pleistocene; Arizona.
 Peterson, O. A. 1926 A, 252. Pleistocene:
 Pennsylvania.

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